

# THE ARCHITECT & BUILDING NEWS

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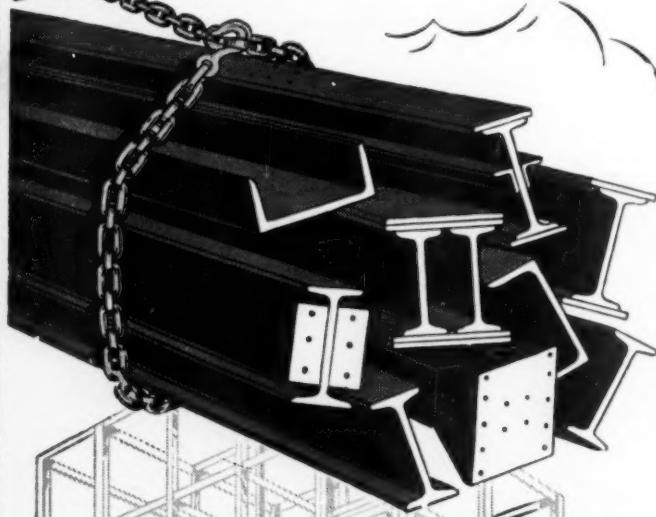
ONE SHILLING WEEKLY

- THREE NEW GARAGES
- MINERS' WELFARE CENTRE
- CURRENT MARKET PRICES  
AND MEASURED RATES

PUBLISHED IN LONDON SINCE 1854

# Steelwork

A SINGLE JOIST  
OR  
A COMPLETE BUILDING



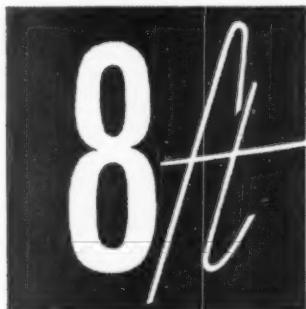
Dry  
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STEELWORK  
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**DUNLOP**  
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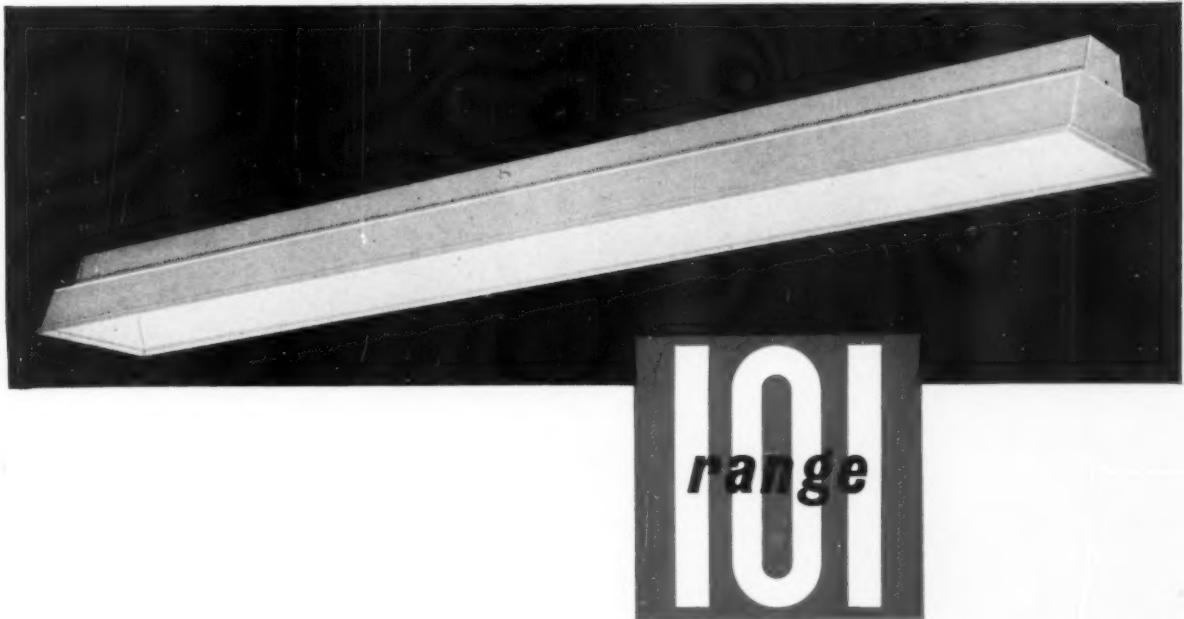
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*by far the finest 8 ft. range in the country*

The brilliantly successful G.E.C. 101 range of fluorescent fittings offers a wide choice of designs for every lighting requirement. The 8 ft. fittings are available in many variations. All use the G.E.C. Basic Channel with Osram Guaranteed Tubes with recessed double contact caps. Tube replacement is made easier as it can be carried out by one person from one ladder position. For full information send for publication F 4068.



*stove enamelled, vitreous enamelled and  
Perspex reflectors.*

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your problem **CONDENSATION?**  
 our answer **SECULATE!**

And not only our answer, but *the* answer! Seculate Anti-condensation Compound sets up a temperature barrier between the moist air and surface on which it is applied and it doesn't matter whether that surface is made of wood, brick, metal, stone, plaster, cement or concrete. Seculate also absorbs moisture even under conditions of steam impaction. Washable, mould and fire-resistant, it's something new which you should know about. A Seculate job is a PERMANENT job. Write to the address below: we'll be glad to send one of our experts along.



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**ANTI-CONDENSATION COMPOUND**

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Telephone: Whitehall 5772

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*"Look at all that  
lovely Tempaflex  
heating!"*

*"I Say Sir . . .*

. . . this Tempaflex heating is jolly good ! Every decent school has it now\* because it sends out lovely warmth without making a draught. At our old school they had blower heaters that made a humming noise and old Baldy was always saying 'stop whispering at the back there.' Lots of the blokes got it in the neck when they were innocent all the time. I bet you could get a book about Tempaflex heaters if you wrote to the chaps who make them—up in London somewhere I expect, but I daresay they have places all over the country."

\*Total now exceeds 800.

**FLEXAIRE LIMITED**

268/270 VAUXHALL BRIDGE ROAD, S.W.1. TELEPHONE: VICTORIA 2066/7/8

and at Birmingham, Glasgow, Manchester, Leeds, Newcastle, Bristol, Belfast, Dublin.

# Plan with PANAX

## Melamine Surface Plastic



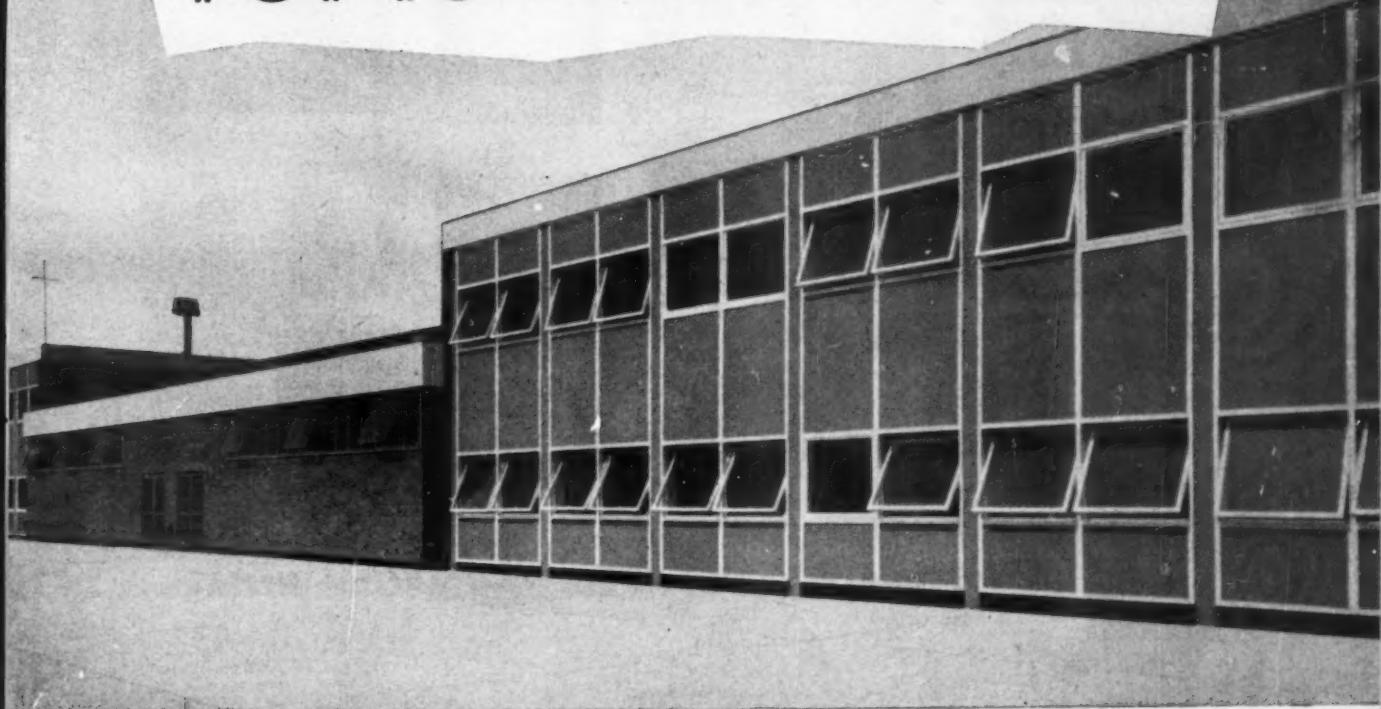
PANAX, while being more heat resistant, more flexible than otherwise comparable laminates, *costs less!* Versatile PANAX, with endless surface possibilities in shops, ships, hotels, hospitals and homes, cafes, restaurants, canteens, clinics and cinemas, is extremely hard, micro-smooth, non-absorbent and of high dimensional stability. Satin and Matt finish in a wide range of contemporary colours and patterns, including realistic wood grains. Standard sheet size: 8' x 4' x  $\frac{1}{8}$ ".

MELAMINE  
SURFACE  
PLASTIC

**PANAX**

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NORTH BRITISH PLASTICS LIMITED, BLAYDON, CO. DURHAM. Phone: Blaydon 346/9. Grams: Panax, Blaydon-on-Tyne

**TOMO** double-glazing at London Airport



We think you'll agree that the appearance of these attractive offices at London Airport is enhanced by their TOMO double-glazed WINDOWS. But that's only a small part of the story. TOMO double-glazing also offers excellent thermal-efficiency values, remarkable sound-reduction properties, finely-controlled ventilation and total indoor window-cleaning.

On the subject of thermal efficiency, we should like to refer you to the report of a recent B.R.S. test quoted on the right. It speaks volumes. When you work within whistling distance of aircraft, sound reduction becomes a matter of vital importance. Here TOMO WINDOWS score heavily. The total reduction in sound level depends finally, of course, on the thickness of glass employed and the space between panes. Using 32-ounce glass spaced at 1½in, TOMO double-glazing gives a reduction of approximately 40 decibels and will, we hope, save Shell-Mex and Esso personnel not a few headaches in the future.

One last point, TOMO double-glazed WINDOWS are suitable for inward or outward opening and can be top-hung, bottom-hung, side-hung or pivot-hung. Any further information you may require will be gladly supplied.

*Administrative and operations offices for aviation fuel supplies at London Airport, half of which are occupied by Shell-Mex & B.P. Ltd. and the other by Esso Petroleum Co. Ltd. Architect: Frederick Gibberd, C.B.E., F.R.I.B.A., M.T.P.I.*

★ When a standard-production TOMO WINDOW Wall-Unit (8 ft. x 8 ft.) was tested at the Building Research Station, Garston, the mean thermal transmittance of the complete unit was found to be 0.31 B.Th.U./sq. ft./°F. This is equal to the thermal transmittance of a traditional 11-in. cavity brick wall! This impressive result was further improved to 0.29 when the TOMO pleated blinds, fitted between the panes, were lowered. The U-value of the window area only was found to be 0.38 which, with TOMO pleated blinds drawn, became 0.35. At 0.38, TOMO double-glazed WINDOWS are substantially (29%) better than the U-value of 0.47 quoted for conventional double windows in the I.H.V.E. Guide to Current Practice, 1955.

**FOR UTMOST EFFICIENCY  
IN THERMAL INSULATION  
AND SOUND REDUCTION—**

**SPECIFY**

**TO: TOMO TRADING CO. LTD., COWLEY PEACHHEY,  
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Please send me your 24pp. TOHO double-glazed WINDOWS brochure.

Name \_\_\_\_\_

### Address

For the attention of..

ABN. 2

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DOUBLE GLAZED  
WINDOWS

—purpose-made in finest timbers  
to Architect's size, style and finish

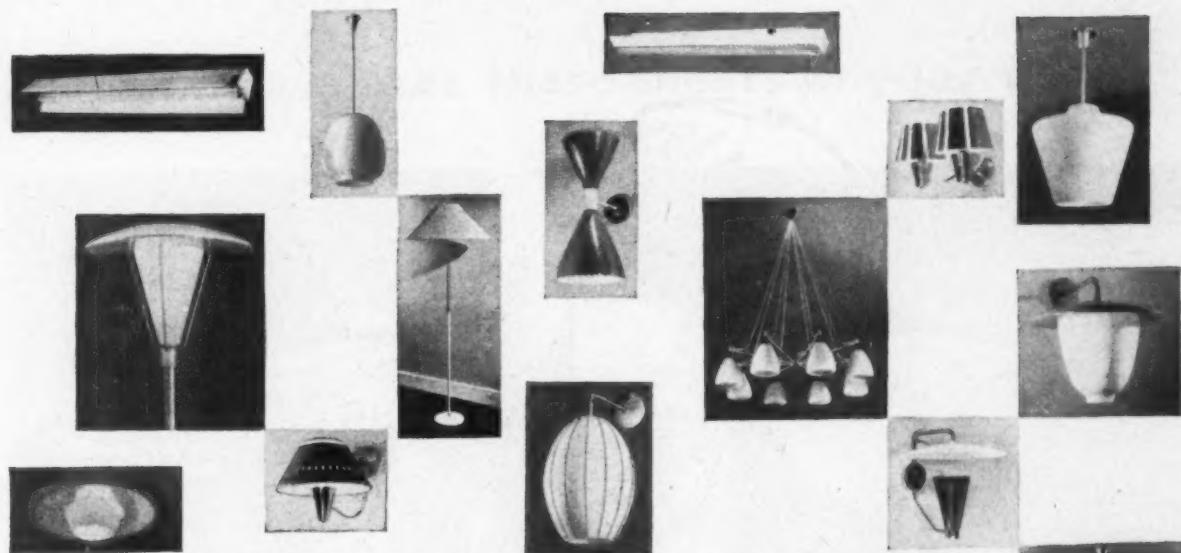


**FALKS**

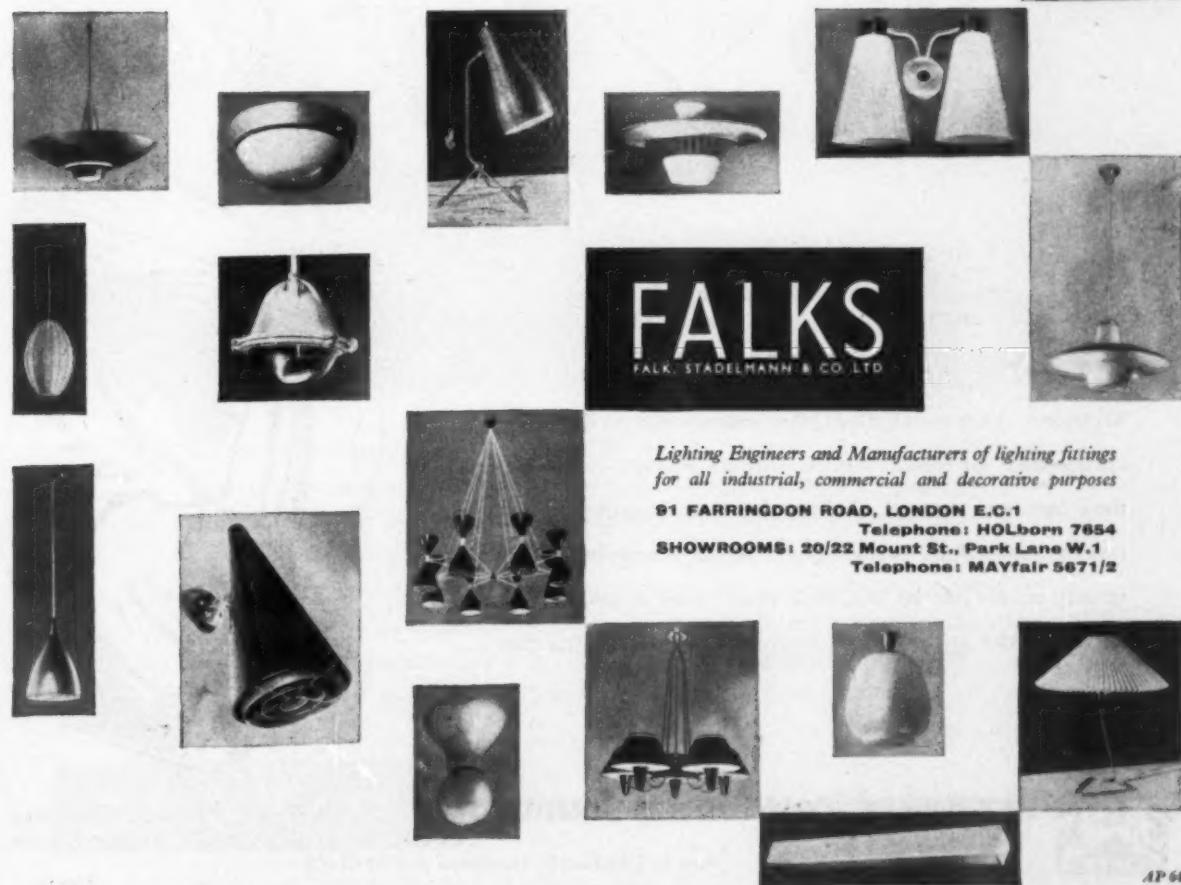
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CREDIBLE CONVERSATIONS NO. 5



**Client:** Our visit to see ECM lifts has satisfied me that they do a good job. What about their service facilities?

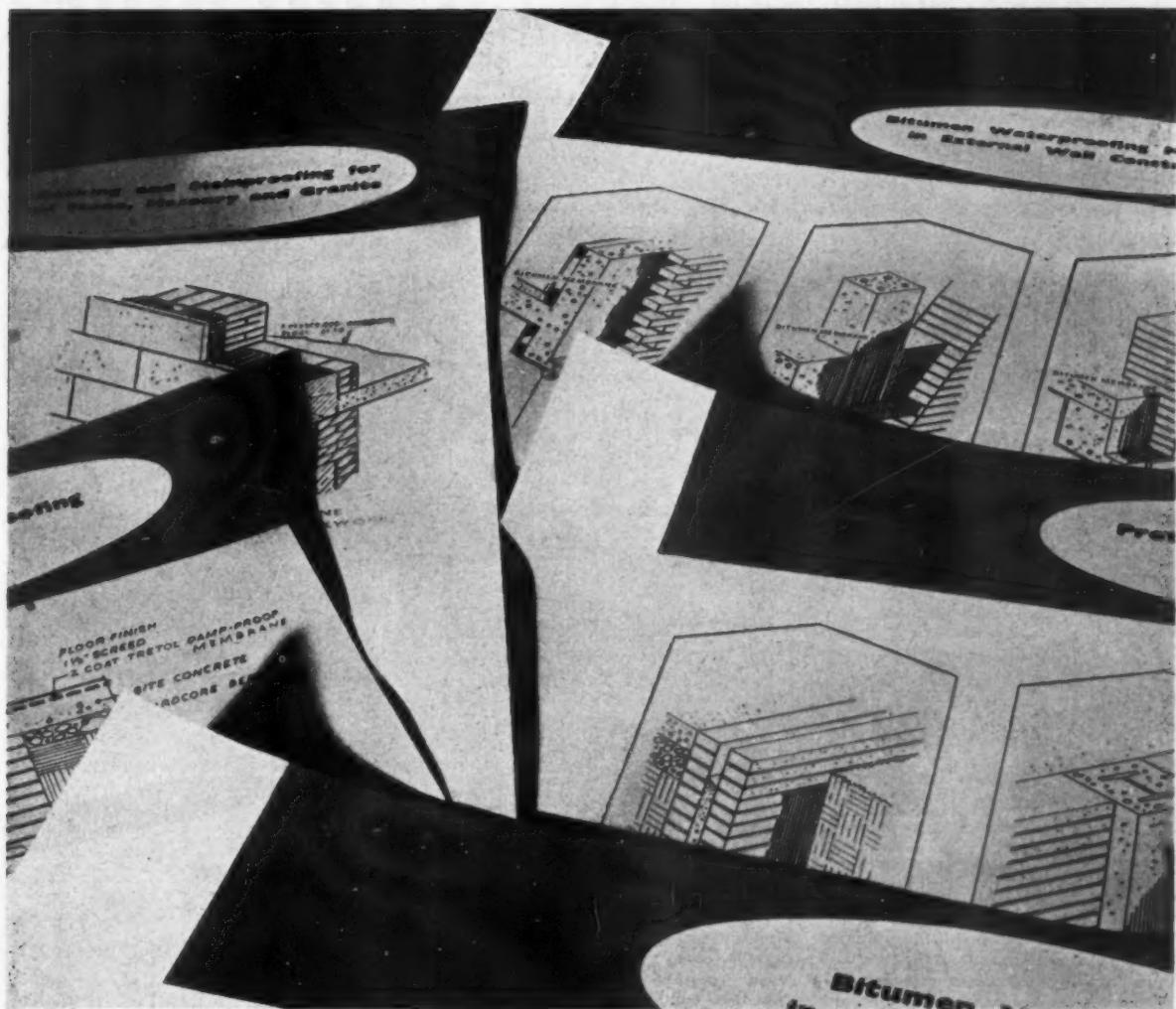
**Architect:** Very good indeed! My clients say that the ECM contract arrangement for regular service visits is very good value and that their men are prompt, efficient, clean and considerate. On the rare occasions when something goes wrong unexpectedly they are quickly on the job. In fact, their service after erection is as good as their service at the enquiry stage, and that I find first class . . .



**ETCHELLS, CONGDON & MUIR LTD.,** 25 Mill Street, Ancoats, Manchester  
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ECM 70

## Are these sheets in your files?



These five specification sheets deal with various aspects of waterproofing structures. They cover the use of cold-applied bitumen solutions as both horizontal and vertical damp-proof membranes. One sheet is devoted entirely to the correct application of internal waterproof renderings as an alternative to tanking. The techniques illustrated have been utilised for a number of years in many important building projects throughout the country. If these sheets are not already in your files, we shall be glad to send you a set. Filing will be no problem, since they are designed to the British Standards size for technical literature.

**TRETOL**

**Cold-Applied Bitumen Membrane Systems**

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*save work and wear with* Duramel



The new canteen at Bovril Ltd.'s Central London factory caters for 375. There's no time to waste. No time for unnecessary work. And these famous food manufacturers very properly insist on absolute hygiene. So they made extensive use of Duramel panels in servery, kitchen and on doors. Duramel resists steam, staining and the common chemical actions caused by foodstuffs. It is thoroughly hygienic and amazingly easy to keep clean. For any kitchen or canteen there is no better choice than Duramel.

**Easy to clean : hard wearing**  
Duramel is not just another plastic. Its

melamine surface is permanently bonded at the factory to high-grade hardwood plywood. The technique used ensures that these two components are permanently bonded to become virtually one substance. The adhesion problems so often associated with ordinary plastics are thus completely overcome. And since Duramel is delivered ready for use, there are big savings in time, labour and expense.

Duramel is made in three different thicknesses and a wide range of colours and patterns. Your nearest distributor will be delighted to discuss its application to your own particular problems.

*Brightness, absolute hygiene and ease of maintenance are among the many advantages of Duramel.*

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THE PLASTIC-FACED PLYWOOD

*The Melamine Plastic surface is bonded to first-grade hardwood plywood. It is waterproof, resistant to heat and mild acids, hygienic and wonderfully durable. Supplied in a range of colourful finishes, and plain white.*

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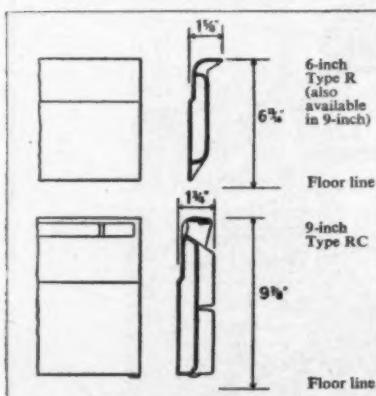
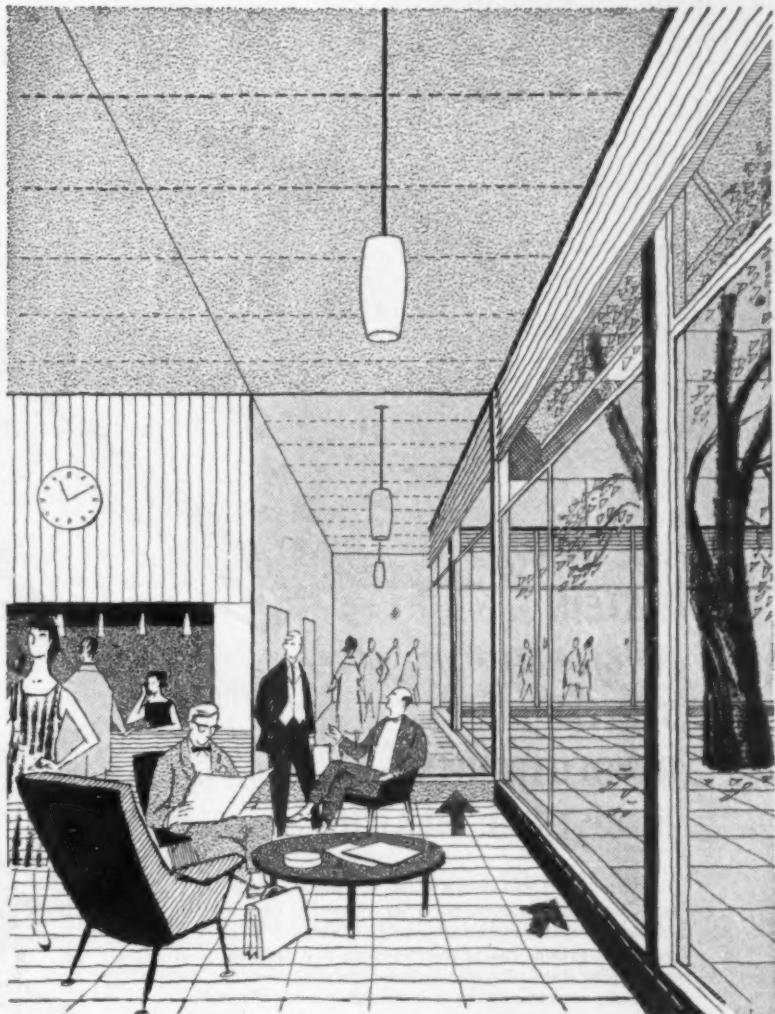
*For the name of your nearest distributor, write to the sole manufacturers :*

F. HILLS & SONS LTD., NORTON ROAD, STOCKTON-ON-TEES. TEL: STOCKTON 67141

## When windows must be wide and deep

THE need to introduce—whether for practical or for aesthetic reasons—windows that reach generously from floor to ceiling and wall to wall, might appear to present a problem: the problem of installing an efficient heating system economically without taking up valuable space or marring an otherwise uncluttered design.

There is one system that is designed to answer problems of this kind. It is a system of skirting heating developed by Crane Ltd. Crane Skirting Heating is so unobtrusive and its application so flexible that a great deal of freedom of arrangement is attained.



Manual (No. 423) on Crane Skirting Heating may be had on application to

CRANE LTD., 13-16 RED LION COURT,  
FLEET STREET, LONDON, E.C.4

London Showrooms:

118 Wigmore Street, London, W.1 and  
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28

This heating system takes the form of panels which are used in place of the normal skirting. They avoid local 'hot spots' and distribute the warmth evenly where it is needed, without taking valuable floor or wall space. There are two types. Type R, which is purely radiant and made in panels 6-inches and 9-inches high; and Type RC (radiant-convector) in the 9-inch size only (used in the example illustrated and indicated by arrows). All panels are in 2-ft. and 1-ft. lengths and are made of cast iron, which gives them great resistance to accidental damage. The operations of calculating heat requirements and designing the pipework are in principle no different from those for conventional radiator heating systems.

In all cases where the architect needs greater freedom of expression than conventional heating systems allow him, and at the same time has to pay due consideration to costs, the answer is, undoubtedly,

**CRANE** skirting heating

**HEAT**

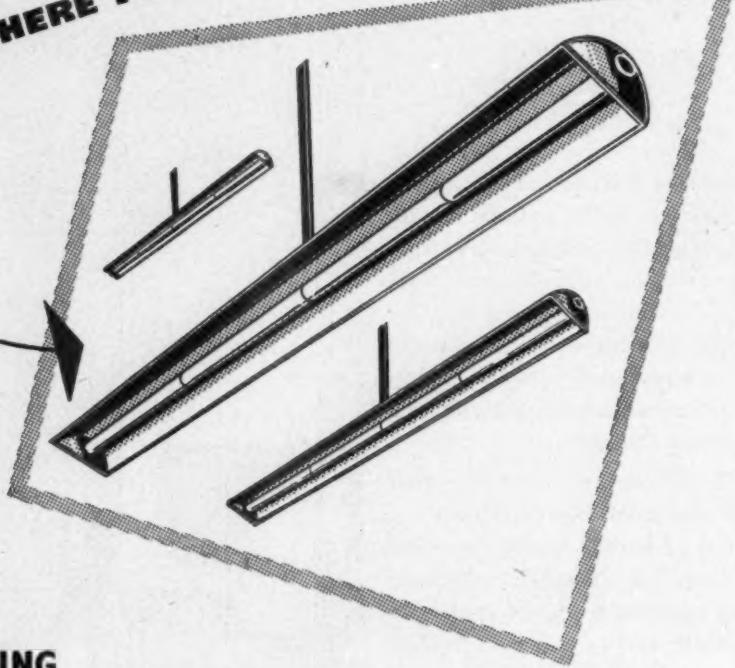
**WHERE YOU WANT IT WITHOUT WASTE**

**THE NEW  
ELSTEIN  
INFRA-RED  
SYSTEM  
REVOLUTIONISES  
INDUSTRIAL HEATING**

The Elstein Infra-Red system makes it possible to heat large, draughty industrial buildings efficiently. Heat can be localised so that it can be directed to the area in which men are working, making it unnecessary to heat large unoccupied areas. Moreover, since none of the heat is wastefully absorbed by the atmosphere, it is not affected by air currents or extractor fans.

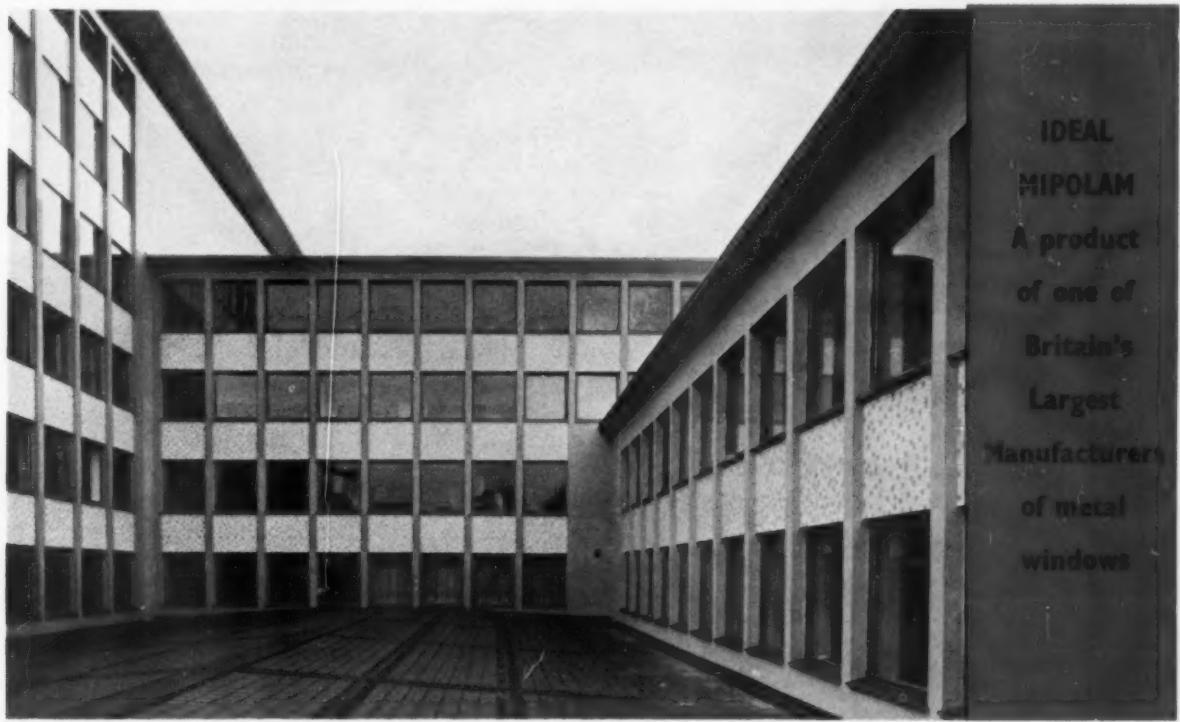
Elstein sealed ceramic elements are proof against chemical fumes, gases and moisture and so have an exceptionally long life. Guaranteed 10,000 burning hours. The Elstein system is easy and economical to install and operation costs are remarkably low. The overhead installation keeps floor areas clear and thus reduces FIRE and accident hazards.

Our technologists will gladly submit plans and estimates without obligation, giving wattage of elements, position of units, method of wiring, etc., to meet individual requirements, assisting the architect in any way possible.



**P & R ELECTRICAL (LONDON) LTD.**

**PEARL HOUSE • BERRIMEAD GARDENS • LONDON, W.3**  
Tel.: ACOrn 0174 (4 Lines)



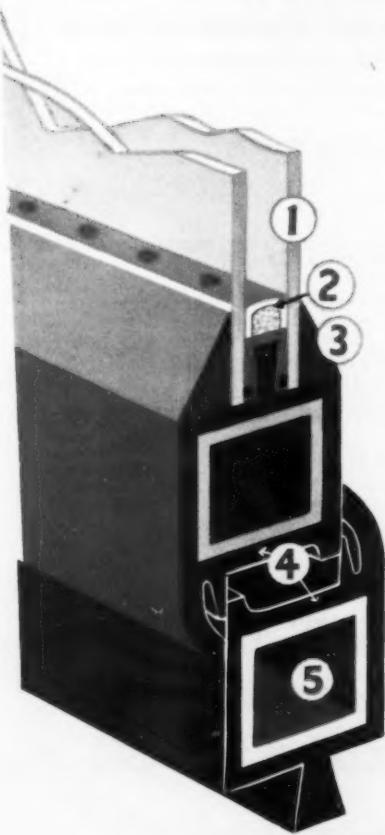
An outstanding installation of MIPOLAM WINDOWS

## IDEAL MIPOLAM

(British Pat. 779278)

The first and only Plastic Window with hollow steel core for rigidity of construction. Available in a wide range of light-fast colours—eliminating the costliest of all items—maintenance. Not affected by atmospheric or corrosive attack. Effective draughtproofing by built-in sealing fins.

1. Double glazing, incorporating special glazing compounds with 'lifelong' life.
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# Key Plan

## TO CUT YOUR BUILDING COSTS

**Outlay on pipes is only a fraction of the cost of a drainage installation.** In winter one out of every five days is lost when putting in conventional pipes. With Key pipes, however, the job still goes ahead cutting out unproductive labour, keeping down overheads and therefore cutting costs.

**Now you can keep to schedule** Delays are negligible with Key pipes, because they can be laid and tested in almost any weather, even despite bad ground. Pre-planning with Key can be done accurately, so that operations are smoothly sequenced and closely dovetailed. Snags are avoided and schedules kept or bettered.

**Urgency on large projects** When your normal drainlaying team is too small for a big rush job, work can still go ahead successfully, by making up with semi-skilled men.



### BRITISH STANDARD KITE MARK

Key pipes comply with BS2760 1956. They are the first pitch fibre drainpipes to carry the British Standard 'Kite' Mark. This is a guarantee of quality and means that the Inspectors of the British Standards Institution have access to our pipe factory at any time.

#### **COST OF A DRAINAGE INSTALLATION**

**= COST OF LABOUR**

**+** **COST OF OVERHEADS**

**+** **COST OF HOLD-UPS**

**+** **COST OF SITE DISRUPTIONS**

**+** **COST OF MATERIALS**

**Use KEY  
and cut  
this total cost**

# THE JOB GOES AHEAD

## -against all odds

**Rain?** Driven taper joints give Key an immediate advantage over cement-jointed rigid pipes, which cannot normally be laid in waterlogged trenches. Runs can be prefabricated at ground level, lowered into prepared trenches and tested immediately.

**Frost and Snow?** Here again the taper joint means that work can still go ahead with Key. In fact frosty days are usually ideal for laying these modern drainpipes.

**Bad Ground?** Key pipes do not have to be laid in concrete, and haunched, on bad ground. Being resilient, they are better without concrete. The savings in skilled labour, time and cost are obviously considerable.

**Site Congestion?** Open trenches and pumping equipment normally cause hold-ups on site in wet weather. Immediate laying, testing and backfilling with Key pipes overcome this problem and keep traffic flowing.

**Hot Sun and Drying Winds?** Even good weather can be bad weather when pipes have to be mortared-jointed. This problem never arises with Key pipes.

### More advantages of KEY PITCH FIBRE PIPES

**No corrosion** Remarkably resistant to acids and alkalis.

**No root growth** The close fitting tapered joints are machined to close limits.

**No cracking through settlement** Natural resilience means that pipes will not crack through normal earth movement.

**Faster laying—fewer breakages** 500 ft. an hour is a modest average with semi-skilled labour. A trench can be excavated, the drain laid, tested and backfilled in a day. Long lengths, toughness and resilience mean fewer breakages.

**Widely approved** Most public authorities and relevant professional bodies have given their approval.

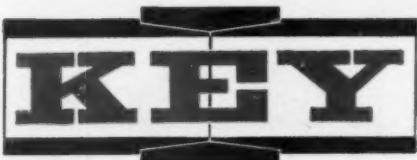
**Lower handling costs** Your unloading and handling costs will be cut by 75% because Key Pitch Fibre pipe is only one quarter the weight of salt glaze ware. It is available in the same diameters, in convenient 8 ft. lengths.

### Ask for a demonstration

A practical demonstration of the advantages of Key pipes can be arranged at any time through your merchant, who will also supply any quantity you require within a matter of hours.



**SPEED THE JOB—CUT THE COST WITH**



**PITCH FIBRE PIPES**

THE WORLD'S FINEST AND MOST MODERN DRAINAGE SYSTEM

A PRODUCT OF **THE KEY ENGINEERING COMPANY LIMITED**

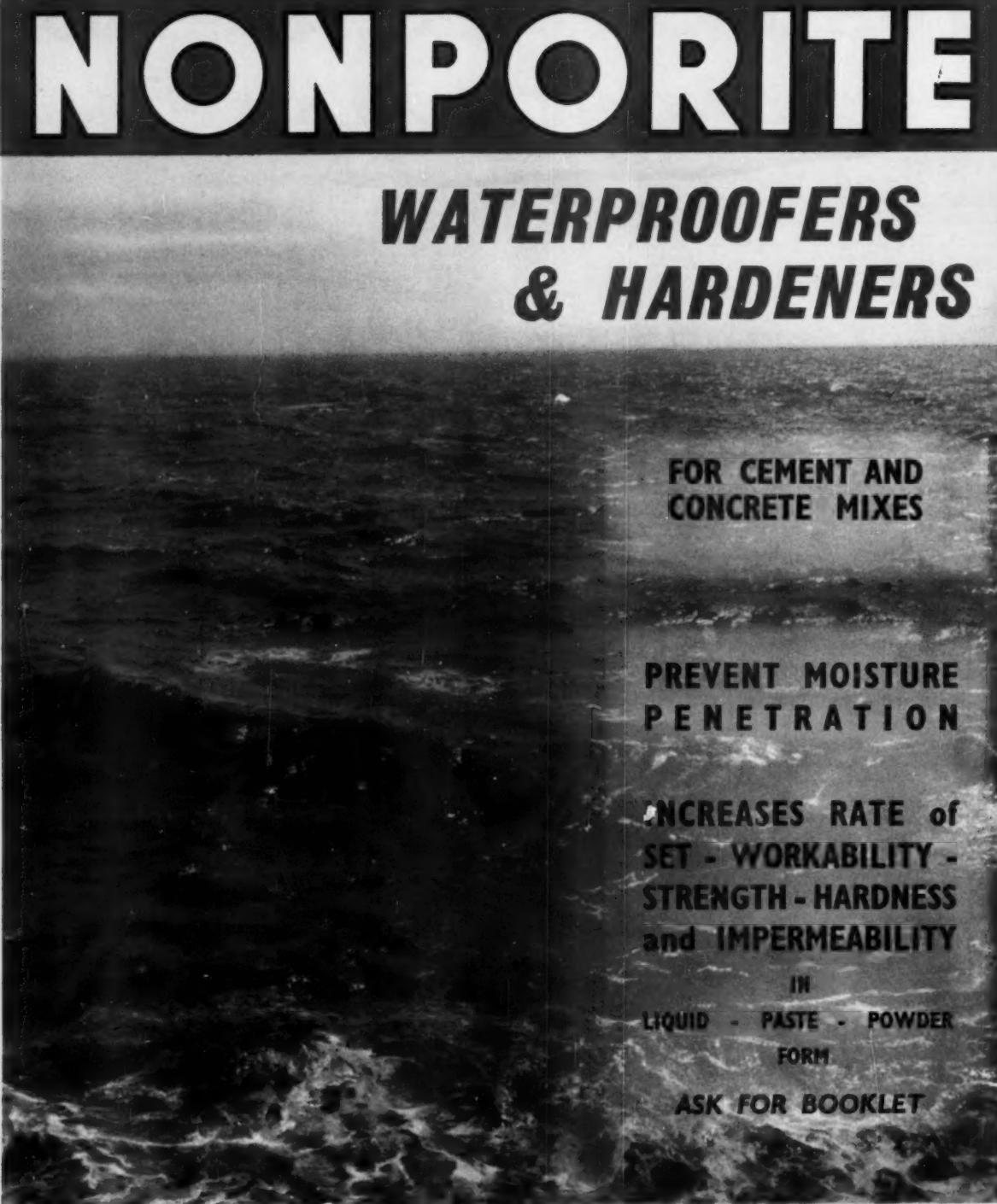
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TGA KD17

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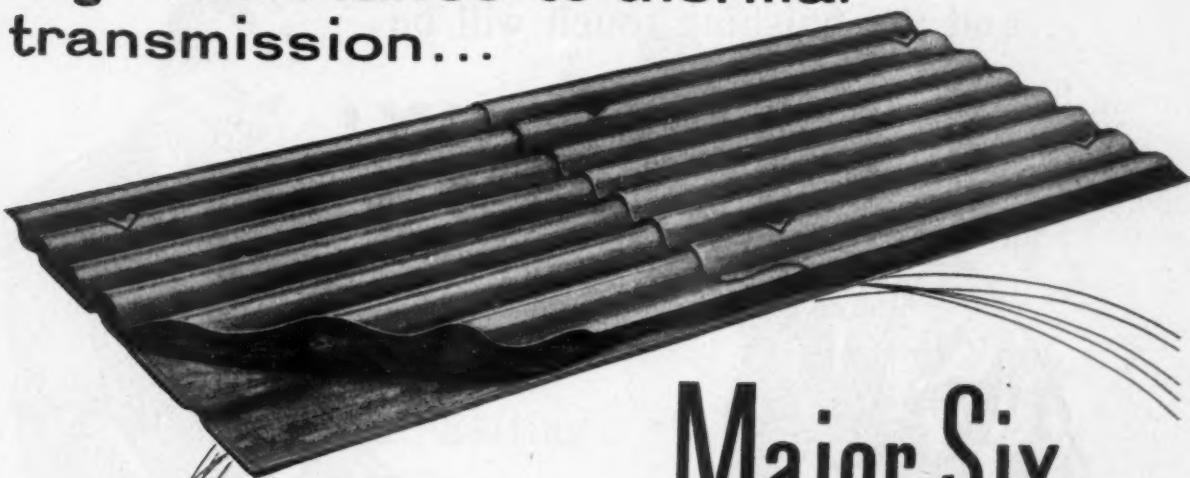
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WEDNESBURY - STAFFS

Telephone: 1821 (nine lines)

LONDON OFFICE: ARTILLERY HOUSE, ARTILLERY ROW, S.W.1. Telephone: Abbey 7601 (five lines)



**High resistance to thermal transmission...**



# Major Six

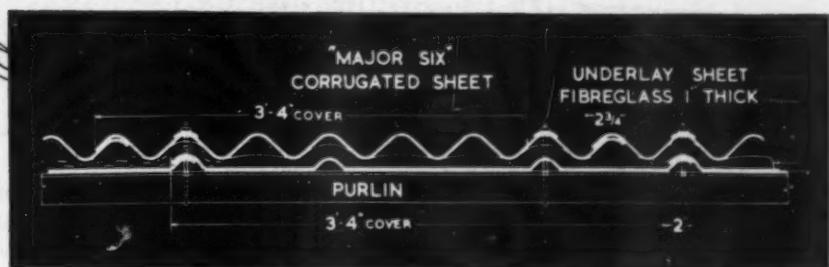
## DOUBLE CLADDING INSULATION



Photograph above illustrates interior view of roof

"Major six" DOUBLE cladding insulation provides a high resistance to thermal transmission, contributing to higher equable interior temperature and consequent economical heating. Here is dependable roofing made for quick erection and permanent service.

It's the DOUBLE cladding that does it!—a rigid asbestos-cement underlining sheet laid directly to purlins as a soffit upon which the sheet of insulation is laid before putting the "Major six" sheet in position.



Easily fixed with hook bolts and washers.  
"Major six" Double Cladding Insulation complies with the requirements of "Thermal Insulation Industrial Buildings" Bill.

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**CERRUX DECORATIVE PAINTS**

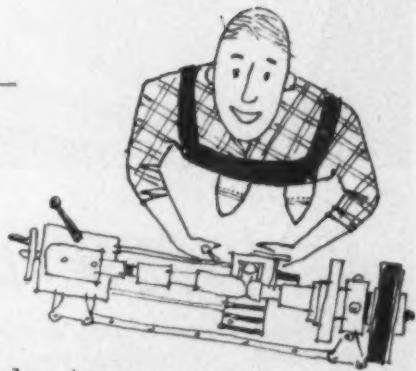
look smarter and last longer

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**Heat spot on!** G.E.C. narrow beam heaters  
are an efficient source of heat  
when warmth is wanted for a localised area—  
operators in machine shops, loading bays,  
garages... draughtsmen in site offices...  
receptionists... wherever overall  
heating is not practicable.



### G.E.C. narrow beam heaters

save on running costs

by concentrating comfort  
only where it is required.

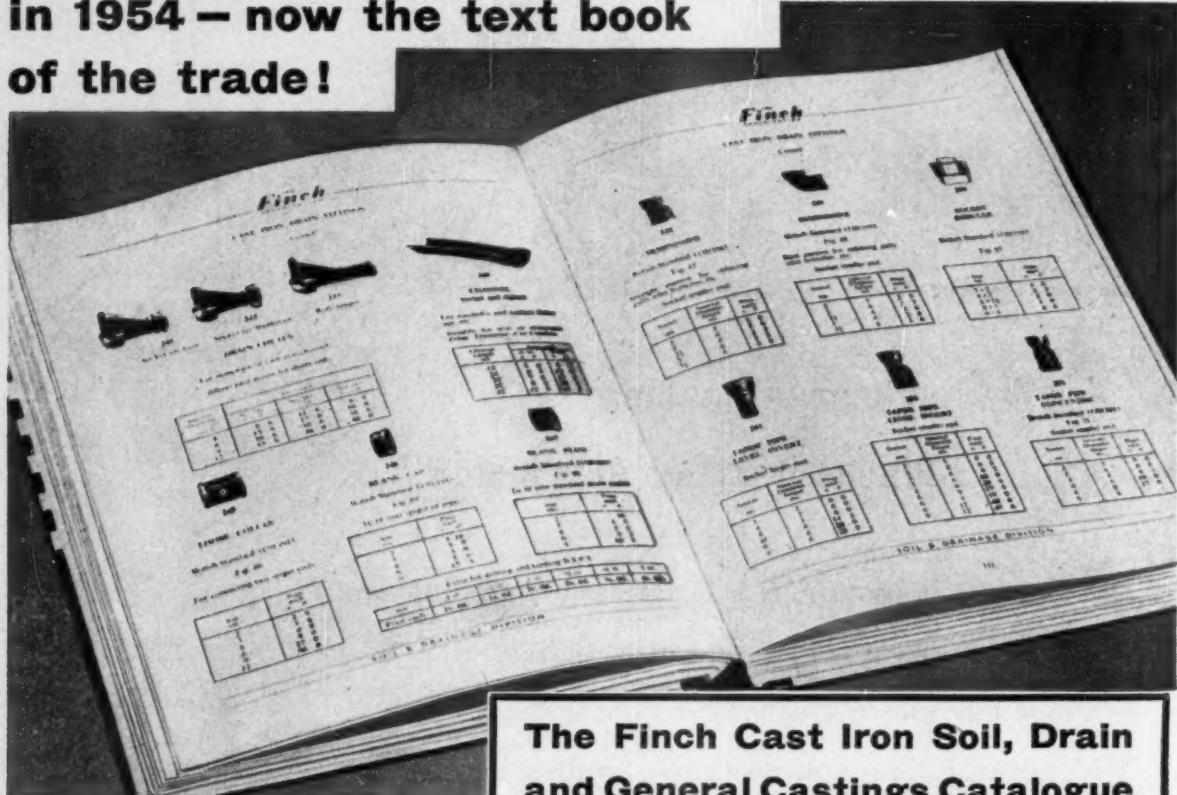
**G.E.C.**

### NARROW BEAM OVERHEAD RADIANT HEATERS

*For full details and specifications, write for publication HO4503.*

THE GENERAL ELECTRIC COMPANY LIMITED, MAGNET HOUSE, KINGSWAY, LONDON W.C.2

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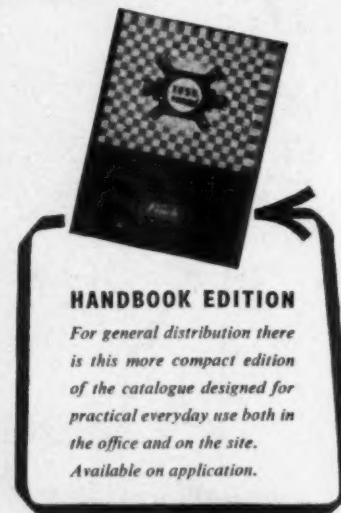
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in association with Leslie C. Norton, M.I.A.A.S.  
have been installed by*

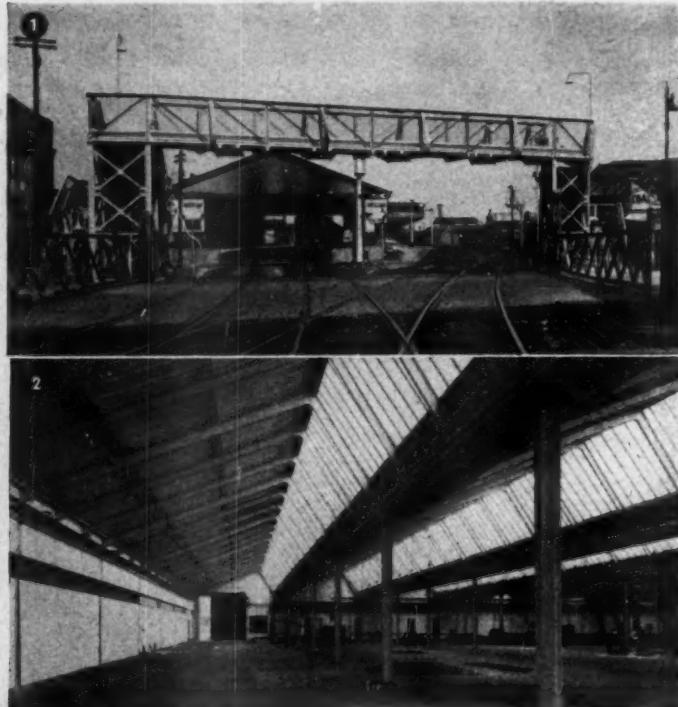
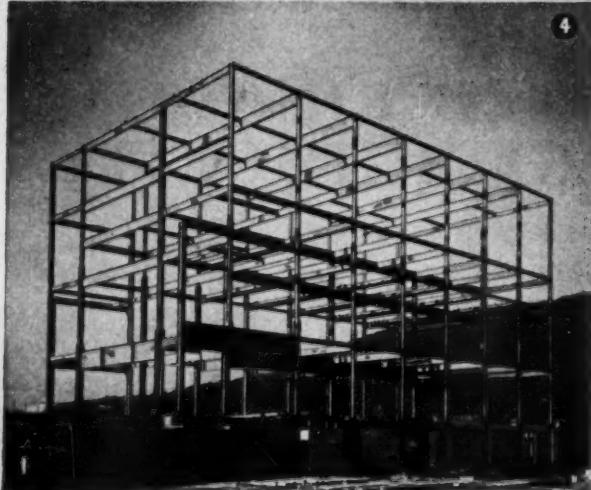
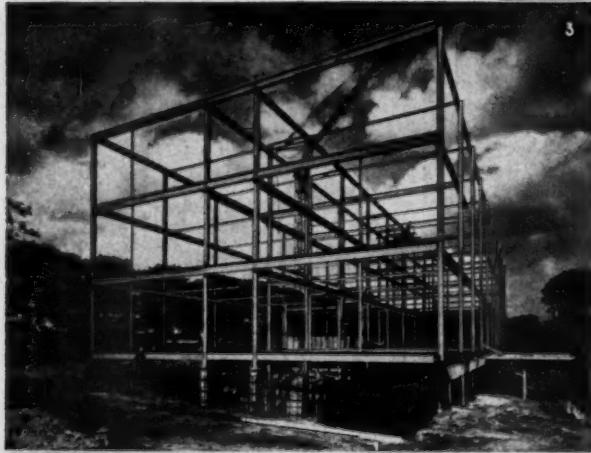
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- 1 Footbridge for Level Crossing in Grimsby.
- 2 Interior view of factory for Messrs. Brook Motors Ltd., Barnsley.
- 3 Sowerby Bridge Secondary School.
- 4 Control Room, Services and Welfare Block, Elland Power Station.

## STRUCTURAL STEELWORK



BY  
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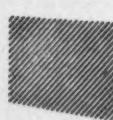
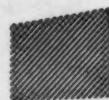
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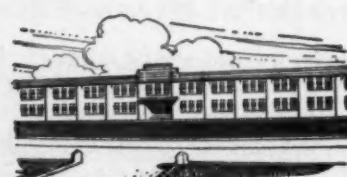
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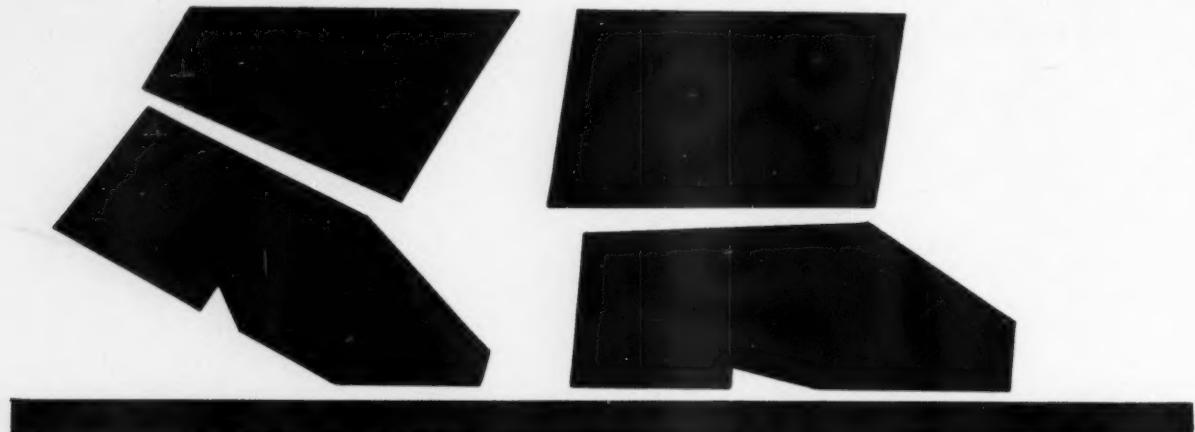
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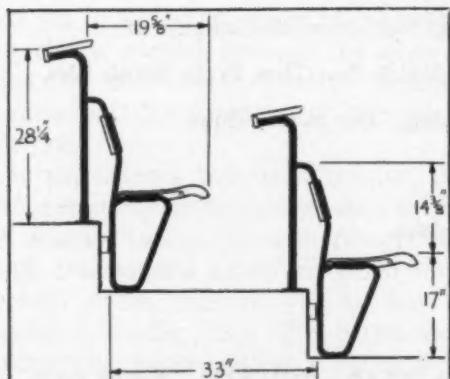
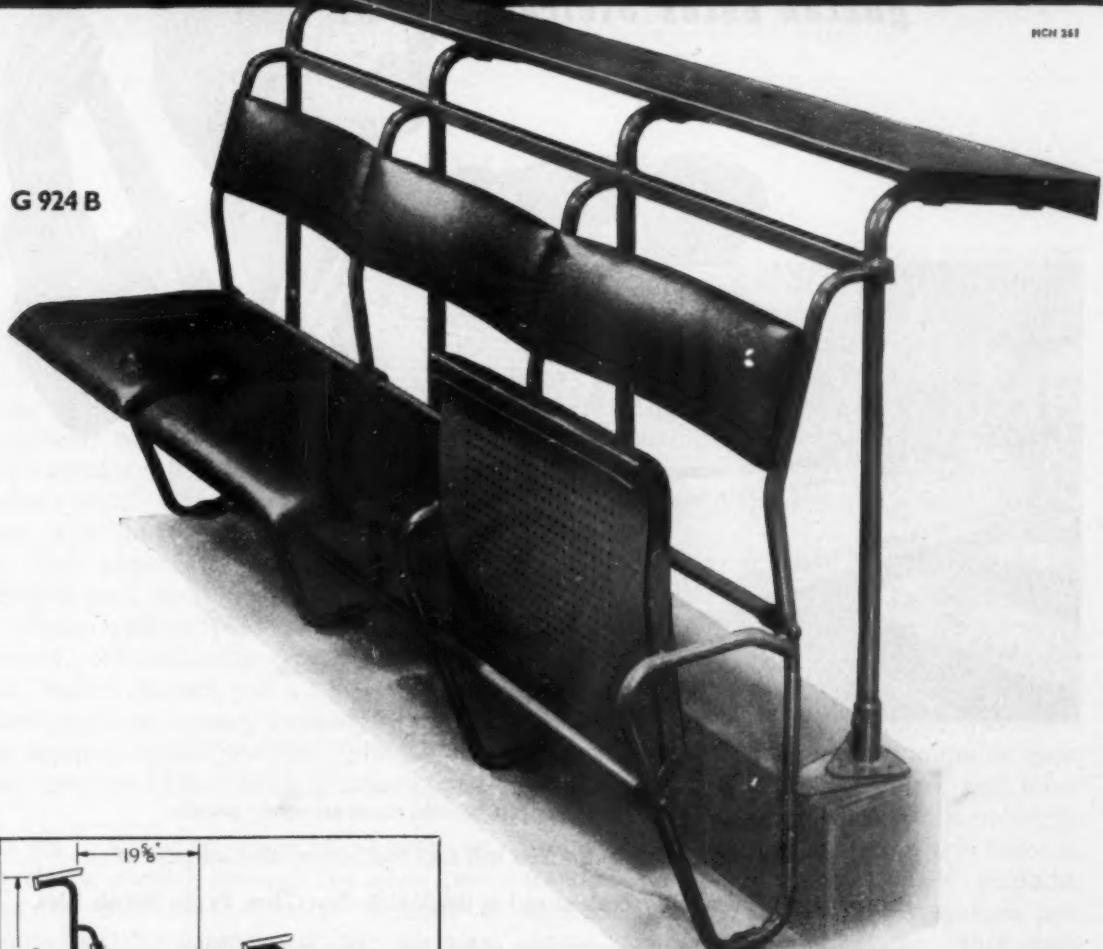
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## NO PANIC POLICY

THE problem of the motor vehicle has crept up on Britain in the manner of those "Things" in science fiction which begin as something of great benefit to man and end by virtually destroying him.

In the nineteenth century our communications system, particularly in the metropolis, was well abreast of the needs of the time. An extensive system of roads was being properly drained and surfaced, the great London estates had generously provided for every conceivable need of coach and horse, and the new railway system performed marvels in multi-level communication by means of viaduct, cutting, tunnel, and all the latest and best that modern science, backed by adventurous finance, could provide. The Underground completed this miracle of communications.

And yet in the short space of 50 years we are in chaos, caused through the mass production of the motor vehicle without a corresponding development of the surfaces for its use.

Now the easiest, but most unwise, policy would be to set up, in the present state of panic, tough Roads Authorities with powers to cut through the tangled knots of urban muddle with bold urban motorways, as has been done with American cities. But, paradoxically, this would only make matters worse, and could in fact end in the disintegration of the city itself.

It is of the greatest importance that our legislators should appreciate that basically

the problem is not one of road engineering but of town planning, of having a comprehensive planning approach within which the roads must play their part. In certain cases, for instance, it might be cheaper and better to move some economic activity that was generating a large amount of vehicular traffic than to carve a swathe through a highly built up and perhaps architecturally irreplaceable area.

If we consider the problem first as one of town planning it is clear that the development plans of the 1947 Town and Country Planning Act did not go nearly far enough. Only in the large-scale studies demanded by the comprehensive development procedure was there a possibility of an adequate technique to meet such a critical need. The centres and inner areas of our largest cities, where the problems are so acute, must be treated in this fashion, so that the possibilities of new viaducts, tunnels, fly-overs, pedestrian segregation, precincts, car-parking, and all the other techniques of communications can be considered to a visual design-size-scale in relation to the overall objective of creating cities which can fulfil their fundamental purpose of civilized living.

As we have to spend a lot of money, let us not be short-sighted either in the details of the road specification or in our overall approach to the problem. Let us spend it wisely, and not in panic fashion, as befits a mature country with a new but already considerable international prestige in planning.

## EVENTS AND COMMENTS

### TOWN ROADS FOR TODAY — AND TOMORROW

This is the title of an impressive exhibition organized by the British Road Federation and opened last week in the Great Hall of the Institution of Civil Engineers by the Minister of Transport and Civil Aviation. In his speech Mr. Harold Watkinson gave some figures of Government expenditure on roads today and tomorrow. The sums sounded huge enough, but then Government figures always do. It would have been better, perhaps, if he had talked in terms of miles of completed road. In three years' time, it seems, we shall be spending money on roads at the rate of £60 million a year. That is fine, until you read that in American experience roads in big cities cost on an average £4 million a mile and that some parts of our own motorways have been calculated at £5 million a mile. Mr. Watkinson had come straight from the House of Commons where he had been answering questions about the Preston Motorway failures and where he had resolutely refused demands for a public inquiry into them.

The really depressing part about the Minister's speech was his lack of reference to the aesthetic problems set by building motor roads in big towns. He had something to say about the challenge which urban roads presented to technical achievement, but made no reference whatever to the disastrous consequences that raised motor roads, flyovers and tunnels may have on townscape. Mr. Watkinson only had to look around him for examples of what can happen when motor-mad engineers are let loose on the great cities of the world, but it was by then too late as his speech was already written. The opening was an engineers' occasion and I only saw one architect, Mr. H. Bennett, of the L.C.C. He at any rate had some cause for satisfaction in that he collaborated in the design of the Hammersmith fly-over, pictures of which were published on the same day and are included in the exhibition. This half-mile job will cost nearly £1½ million and was due to be discussed by the L.C.C. yesterday. The main structure will be in prestressed concrete and the central supporting columns will be spaced up to 140ft apart. It certainly looks "slim and elegant" as claimed in the hand-out. The fly-over was designed by G. Maunsell & Partners in association with Mr. Joseph Rawlinson, the L.C.C.'s chief engineer, and Mr. Bennett.

To condemn all the schemes in this comprehensive and very well arranged exhibition as the machinations of the devil would be silly, but they do show how

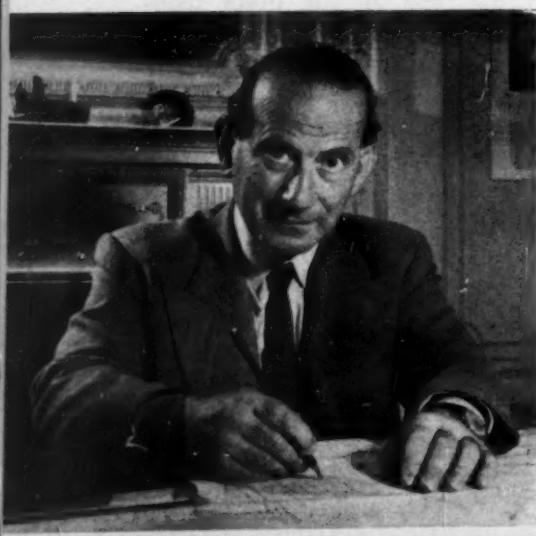
"civilized" mankind is being driven by the motor-car to ruin many of its cities. Many of the great winding ribbons of road at different levels are tremendously dramatic when seen from the air. They may also be impressive from the driver's seat, but as often as not their effect on the towns through which they are cut or over which they fly is catastrophic. The need for better urban roads is urgent, the knife rather than medicine is called for because we have left treatment so late. We must make sure that the patients are not maimed or do not die on the operating table. Technical difficulties apart, tunnels at crossings are less obtrusive than fly-overs, and many good examples can be seen on the edge of Paris and in Brussels. The raised highway—of the type asked for in the Prestressed Concrete Development Group's current competition—works very well where sufficient width of road exists. Brussels has an example of this. It has made a fine speedway that utterly ruined a fine boulevard. In Scandinavia—and particularly in Sweden—they have seen the traffic bogey in the distance and have planned for it. Other countries such as ours are trying to ease the situation before everything grinds to a stop. Desperation is bad for aesthetics and we shall shortly be desperate. Ring roads and roads over railways seem among the most sensible solutions to through traffic. The bringing of high-speed private traffic into the heart of cities seems to me to be mad. Cars should be left outside or in specially isolated areas within easy public transport reach of the centre. The city must be kept for human beings, not machines.

### R.I.B.A.'s INTEREST

The R.I.B.A. is concerned about the threat to our towns and country of roads whose aesthetics and landscaping have been insufficiently thought out. I hear that the R.I.B.A. feels, quite rightly, that these important aspects of road design can only be safeguarded if architects are included on the urban road study groups set up by local authorities on the advice of the M.O.T. & C.A. The Minister has declined to say that this should be so and referred the R.I.B.A. to the local authorities concerned. Letters have now been sent to several local authorities urging that the city architect should be a member of the group.

On the question of new trunk roads, there has, I believe, been adverse criticism in the R.I.B.A. Council of the landscaping and visual appearance of road furniture. The support of those concerned with national amenities has already been enlisted.

The replies so far received from town clerks of cities



Left: the late  
Felix Samuely

Right: H. J. Whitfield Lewis



where study groups are being set up have been anything but reassuring. Constant pressure from everyone interested will be needed if we are to avoid being landed with hundreds of miles of new highway and urban motorway as undistinguished in appearance design as the Preston By-pass.

#### NEW COUNTY ARCHITECT

It must be a long time since there were so many important changes among the high-ups of the architectural, design and building world. The latest news is that Mr. H. J. Whitfield Lewis has succeeded Mr. C. G. Stillman as Middlesex county architect. He has been principal housing architect at the L.C.C. since 1950, and before that was with Norman & Dawbarn for a total of seven years. As a young man he worked for Mendelsohn & Chermayeff and was the assistant in charge of Chermayeff's own very interesting house in Sussex. Mr. Whitfield Lewis is a keen small-boat sailor.

#### THE LATE FELIX SAMUELY

News of Mr. Samuely's death came as a severe shock. I knew that he had been ill some time ago and had been advised to take life more quietly. This was asking too much of him. His energy and ebullience never flagged, and now we are without him. He was one of our greatest and most imaginative structural engineers and one of the few who really understood the mind of the architect. Architecture will be very much the poorer by his death. Everybody loved Sam.

#### LE CORBUSIER EXHIBITION

A visitor to the Building Centre last week was surprised to find half the ground floor full of giant packing cases. When he asked Frank Yerbury whether the centre was on the move again, he was told, "Oh no, it's just an attack of internal 'corbusion'". The exhibition was due to be opened by H.E. the French Ambassador yesterday. I have seen enough of it, by spying, to say that it is a most exciting show. The catalogue is an excellent production and at 5s is a bargain, for it contains many illustrations and several articles on Corb and his work.

Four guide lectures have been arranged. They will be given on February 12, 19 and 26 and March 5 from 5 to 6 p.m. Speakers will include Jane Drew, Reg Butler, Peter Smithson, Ernö Goldfinger, Fello Atkinson, Harper Ellis, James Stirling and Sir John Summerson.

The exhibition will, I understand, be covered by B.B.C. sound and TV. Rumour has it that a team has gone to Paris to film Corb himself for "Tonight". The Third Programme has a discussion, "Le Corbusier and the Future of Architecture", on Friday next, February 6, at 9.45 p.m. Speakers will include B. Lubetkin, Graeme Shankland, James Stirling, Colin Rowe and George Kassaboff.

#### CHANGES AT THE C.O.I.D.

Sir Gordon Russell is to retire at the end of the year. He has been director of the Council of Industrial Design since 1947 and has done a wonderful job. He has maintained his enthusiasm and boyish outlook in a way that is the envy of everyone who knows him. The C.O.I.D. owes very nearly everything to Sir Gordon, who combines, almost miraculously in one person, the knowledge of the industrialist, the training of the designer, the skill of the craftsman and the zeal of the crusader. This is not all, for he is a delightful speaker and the most excellent company.



Left: Sir Gordon Russell. Right: Mr. Paul Reilly

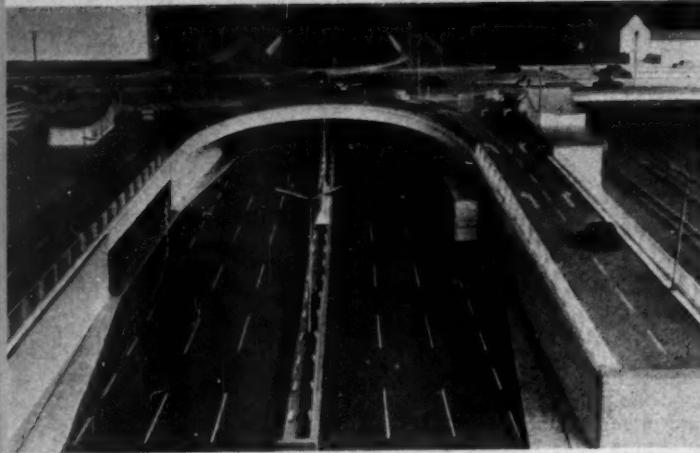
It is nearly a year to his retirement, but no one need worry about what he will do with himself when the time comes. His craft skill will no doubt be put to good use, whether it is in carving stone, making furniture or replanning his garden. He may even find time to shift a huge boulder which has been lying outside his gate for years waiting for attention. He will, I know, be completely happy in retirement. We, on the other hand, shall miss him very much and the various design functions of the London year will be the duller for his absence.

Mr. Paul Reilly, who succeeds Sir Gordon on January 1, 1960, has been deputy director of the C.O.I.D. since 1954, having served as chief information officer from 1948 to 1954. He is already well known as his master's shadow. Son of the great Professor Sir Charles Reilly, he read economics at Oxford and the London School of Economics. Before joining the C.O.I.D. he worked mainly as a journalist. He was with the *News Chronicle* for five years and then with the National Trade Press, where he concerned himself mainly with plastics. During the war he graduated from trooper in the Royal Armoured Corps to lieutenant R.N.V.R. Mr. Reilly is also well known for his writing on design and architecture and has toured and lectured widely in Europe.

His wide experience with Sir Gordon at the C.O.I.D. fits him admirably for his new appointment, and although he is following a very remarkable man we may have every confidence that under his direction the C.O.I.D. will continue to develop as a powerful influence in the cause of good design.

#### NEW LEVER HANDLES

Mr. A. G. Roberts presented the prizes last week in the competition for the design of a lever handle which his firm recently organized. The ceremony took place at the Building Centre where some of the entries were exhibited. Mr. Anthony Cox, F.R.I.B.A., speaking as one of the assessors, said that on the whole the results were disappointing. The first prize of £100 had not been awarded. A large number of entries were fantastic and the production of many of them would have been quite impossible. The most elementary requirements of a lever handle were overlooked by many competitors. Mr. R. Planck, a director of A. G. Roberts Ltd., told me that his main reason for organizing the competition had been because of the criticisms by architects of stock articles. He thought he would like to give architects a chance to see what



Two of the many schemes illustrated in the exhibition "Town Roads for Today—and Tomorrow", on show at the Institution of Civil Engineers until February 7. At the top is an artist's impression of a section of the £1,200,000 flyover to be constructed at Hammersmith. The lower picture shows a model of the ring motorway, Berlin, where it passes under the Hohenzollerndamm

they could do. The result, in a field of 67 entries, six from architects. This kind of thing is most discouraging to a manufacturer who tries to do something progressive and constructive. Mr. Planck has every reason to think that the profession has let him down. Nevertheless, the firm is to be congratulated on its enterprise.

#### LUTYENS AT THE A.A.

I have never seen so many bald heads at the A.A. as I saw gathered to pay tribute to the memory of Sir Edwin Lutyens last week. Many eminent members were attending for the first time in years. The famous were headed by the senior past-president of the association, Mr. Curtis Green, who was president 47 years ago. The room was packed to suffocation with people who had worked with Lutyens or known him, but in spite of this great fund of information and experience it was not a very good evening. To begin with, 15 people were down to speak. The knowledge of that alone was enough to give the audience the horrors, while it soured the 50-odd who would have liked to have spoken. Almost everyone spoke for longer than their material warranted, only Hope Bagenal and Robert Jordan were really worth hearing. The reminiscence and anecdote of old friends was too wrapped up with unimportant facts, and I found that I learned very little about the great man. An evening with so many speakers should be properly produced and rigidly controlled. In the room there was material for a first-rate sound radio programme. As an A.A. meeting it was a failure and this was a great pity for it will be a long time before the next Lutyens evening. Let us hope that the B.B.C. scouts will take it up.

ABNER

## NEWS

### N.F.B.T.E Annual General Meeting

The annual general meeting of the National Federation of Building Trades Employers was held in London on January 21. The following points were among those made during the discussion on the annual report:

**Thermal Insulation, housing:** it was hoped that methods of carrying out the standards would be discretionary and not laid down in the model by-laws. It was said that 30 to 40 methods would be set out in the by-laws. This would help the small man, but did not prevent the use of other approved methods.

**Labour Matters:** the Southern Counties were nearly one hundred per cent against any reduction of working hours. If they were reduced the employers would demand certain things: such as a tightening-up of tea-breaks (have them in the men's time) and greater flexibility of hours.

**Institute of Builders:** Every builder of repute should join and give it financial support. The special admission regulations would cease in May.

Members should use their qualifications as a matter of public relations. Ignorance was the biggest problem in the industry. Builders should follow the example of the architects in organizing their institute to combat this.

**Education and Training:** Foremen—the City and Guilds two-year course was too long for young men who were moving about from site to site. Some firms were not indenturing their apprentices. Could the federation insist on this? It would help matters in the provinces.

The industry had about 3,000 apprentices less at the end of 1958 compared with 1957.

### Annual Dinner

The federation's annual dinner took place at Grosvenor House, Park Lane, on Tuesday, January 27, the evening prior to the annual general meeting. Speakers were: The 1958 president, Mr. C. P. Howells, Mr. Hugh Molson, M.P., Minister of Works, Mr. T. V. Prosser, senior vice-president, 1958, and Sir Percy Thomas, past-president, R.I.B.A. References were made to the retirement of Stanley Header, the federation's director since 1945, in March. Mr. Molson said the Ministry of Works will be sorry at losing him: "He was never backward in voicing your (N.F.B.T.E.) interests, but has been sympathetic to our (M.O.W.) problems." The Minister welcomed Peter Trench ("It is the next generation coming forward"), Mr. Header's successor, and wished him the best of luck. Mr. Prosser welcomed particularly the presence of the P.R.I.B.A., Basil Spence. He had a friendly dig at architects: "... who distinguish themselves by doing to your house what they would never dare do to their own." Sir Percy Thomas deplored two men of such wide experience as "Bill" Spragg (secretary, R.I.B.A.) and Stanley Header retiring in the same year ("It's going to be a loss and it's a damn shame"). Sir Percy said he thought the N.F.B.T.E. annual dinner and dance one of the most colourful and happiest of functions—a sentiment we warmly endorse.

### Federation's New President

Mr. T. V. Prosser, of Liverpool, has been elected president of the National Federation of Building Trades Employers for the 1959 session.

Mr. Prosser entered into pupilship in an architect's office in 1925 and after one year he transferred to the office of William Thornton & Sons Ltd., building and engineering contractors, Liverpool, for one year's training. He decided to remain in the building industry. In 1935, as agent for Thornton's, he used the moving form technique of construction and has since become an expert in this technique. He was elected a director in 1936 and managing director in 1945.

He was elected to the council of the Liverpool Federation of Building Trades Employers in 1936, and became president of that federation in 1956. In addition to his chairmanship of the National Federation's Contracts Committee he also serves on its executive, finance and defence committees, and is a member of the Joint Consultative Committee of Architects, Quantity Surveyors and Builders. He is one of the industry's four representatives on the Joint Contracts Tribunal and represents the federation on the contracts committee of the Federation of British Industries. He is also a member of the Board of Building Education, and a Fellow of the Institute of Builders. He is also a governor of the Liverpool College of Building.

The new senior vice-president is Mr. D. E. Woodbine Parish, London, and the junior vice-presidents are Mr. C. R. Setter, J.P., Bristol, and Mr. F. Russon, Birmingham. Mr. N. Longley, C.B.E., Crawley, was re-elected hon. treasurer.



Mr. T. V. Prosser,  
new president of  
the N.F.B.T.E.

## Federation's Annual Report

The annual report of the N.F.B.T.E. describes 1958 as "a difficult year" for many builders, manufacturers and suppliers. Building output, as measured by the official Index of Industrial Production, fell about 3 per cent in the first half of 1958, compared with the first half of 1957. In the same period, slightly under 23 million sq ft of industrial buildings were approved, compared with 32 million sq ft in the first six months of 1957. At the end of June, 1958, £148 million worth of educational projects was under construction in England and Wales, compared with £165 million worth a year previously. In Great Britain 232,897 houses were under construction at the end of September, 1958, compared with 256,808 in 1957. The number of operatives employed fell from 1,066,000 in July, 1957, to 1,049,000 in July, 1958. Total unemployment in the building and civil engineering industries was 44,735 in August, 1958, compared with 29,813 in August, 1957, the areas primarily affected being those with no major urban concentrations of population such as East Anglia, Devon and Cornwall. The amount of unemployment in building rose by some 19,000 between July and November, 1958. As the effects of the removal of controls begin to show themselves, there should be a gradual improvement.

## Safety in Building

The N.F.B.T.E. Building Regulations and Safety Committee has expressed its appreciation of the growth regionally and locally of the movement for greater safety in building. The committee have prepared a booklet to assist member-firms in preparing an accident prevention policy by setting out the principles of a basic managerial structure in this field. The booklet will be circulated to all members early in 1959.

## Joint Contracts Tribunal

Instructions were delivered to counsel early in the year to prepare a first draft of a revised text of the R.I.B.A. Standard Form of Contract. These instructions were based on the recommendations of the Joint Contracts Tribunal.

## Building Advisory Service

During the year the Building Advisory Service undertook 52 assignments for 44 firms who are members of, or associated with, the N.F.B.T.E. These assignments covered general organization, accounting and clerical methods, contract planning, incentive schemes, joinery shop layout and methods, plant and transport and work study. The number of firms who have employed B.A.S. now exceeds 150.

In addition to these assignments B.A.S. held 44 courses on work study, planning, accounting and clerical methods on behalf of local associations and 18 similar courses for individual firms. Approximately 750 supervisors and executives attended these courses and in almost every instance repeat courses have been requested. A further 25 courses have been arranged for the period January/April, 1959.

## Report of the Federation of Registered House-Builders

It seems likely that the number of houses completed in 1958 will be of the order of some 275,000, of which nearly half will have been built by private builders. While it is disappointing that the numbers of houses built by private builders have not increased sufficiently to balance the fall in local authority building, the percentage contribution of private enterprise has continued to increase and in recent months has surpassed the number produced by local authorities.

## I.A.A.S. President

Mr. R. E. J. Harding, F.I.A.S., F.I.A.R.B., A.M.S.E., was elected president of the Incorporated Association of Architects and Surveyors on January 24. He succeeds Mr. F. J. Meekins, F.I.A.S., F.I.A.R.B.

## Official Architects' Association

The Association of Official Architects was formally constituted in London on Saturday. The association has hitherto been known as the Local Government Architects Society. Its address is c/o the R.I.B.A., 66 Portland Place. More details will appear next week.

## Smoke Control Speed Up

Mr. Henry Brooke, Minister of Housing and Local Government, is calling for faster progress in removing the smoke pall from the "black areas" of England and Wales. He has asked councils in black areas to inform him by the end of June how long it will take to deal with their domestic smoke problems, what smoke control orders will be needed, and their order of priority. He is asking for five-year-phased programmes.

In a circular to local authorities, Mr. Brooke points out that about half the smoke comes from domestic stoves and fireplaces burning coal, and that it is mostly discharged low down where it does the greatest harm. To

[Continued on page 150]

## R.I.B.A. PRIZES AND STUDENTSHIP, 1959

*The criticism of students' work submitted for R.I.B.A. Prizes and Studentship, 1959, took place last evening. Below is the address by the R.I.B.A. President, Basil Spence. The criticism by Edward Mills will be published next week*

YOU will have heard that Professor Ludwig Mies van der Rohe has been awarded the Royal Gold Medal for 1959, and I feel certain that there is universal approval of this award because Mies van der Rohe is a world influence in architecture—a man advanced in years when recognition from the R.I.B.A. has come rather late in life.

I can well remember, immediately after the war when I was demobilized, that Mies van der Rohe was all the rage. The young architects in the schools of architecture practically worshipped him. His philosophy of the delicate enclosure of space and pure structural expression swept through the student population, almost like a hot gospel. But I must admit to being considerably puzzled recently, when I have heard young people say that he was no good at all, that his work had nothing for them and that the great Corbusier was their idol and his philosophy was all that mattered in this day and age. The implication was, of course, that if work did not show the influence of Corbusier it was just rotten.

Now I think that we should look at this whole situation coldly and without undue passion, and we must admit that there are three giants now living who have affected the faces of our cities and, as the young know all about them, our future cities as well. I think that their influence will go far and wide. I refer, of course, to Frank Lloyd Wright, Le Corbusier and our most recent Royal Gold Medallist, Mies van der Rohe.

It is of great interest to me that they have created fashions in design, which, like fashions in women's dress, go in and out with alarming rapidity. But I would like to point out, if possible, the motivating force behind these three masters. I think they all have one thing in common—it is a strong desire to create architecture, and it is architecture they care about. Mies is reported to have said that he did not wish to be known as an original architect, but only a good one, and this points to a fundamental dedication through his own personal faith to the creation of works of architecture. We, as architects, must respect this point of view, it is the quality of his work that matters, and whether it qualifies as great architecture.

I am convinced that all great architecture has the eternal constants. There is something in common.

First of all, it is the sensitive enclosing of space, where the emotional and intellectual response in the critic or viewer, or the man in the street, is strong and positive, and he feels it. The great space, like St. Paul's dome, which is architecture, never fails to impress me through its sheer volume, and the magnificent way that space is enclosed. In exactly the same way, I think, Mies throws around a spider's web of delicate engineering, creating architecture of a rare beauty. Corbusier, on the other hand, creates space of a different character, strong, beautifully sculptured, thrilling and exciting, in its abstract form; he encloses space with rhythms of a different kind—the depth of material and weight come into it, showing perhaps the opposite approach. We have, of course, a superb example of this in his Chapel at Ronchamp.

Frank Lloyd Wright is very diverse in his works, and some of his human interiors, especially his own personal houses, show a flow of intimate space from one chamber into another. He, of course, dedicates his work

to the service of man, he believes in organic growth, he believes that buildings should grow almost like plants. When one sees his creations in the desert of Arizona and in his native America, there is a mysterious indigenous quality about this very original architecture. We all await with interest his latest great work, the Guggenheim Museum in New York; and this at the age of 89!

But where does fashion come in? Fashion, I firmly believe, should not be discounted; it should not be thrown overboard. It is useful as a stimulus, it is useful as a prop. It tends to give confidence to lesser mortals. But I think this is where it ends. The fact that Mies or Corbusier or Frank Lloyd Wright does something spectacular should not cloud the whole vista, but be taken as one great man's approach to the problem, and if lots of people like to think in this way it may create a fashion, but it is only a stimulus and not an end in itself. I can't help thinking that some of the other and deeper facets of modern architecture, such as structural expression, the use of materials that are suited to their purpose, and various other philosophies which get tied up in a sort of architectural code of ethics, are in themselves stimuli. I believe that they stimulate the artist and give him confidence and feed his integrity: but in the end one has to ask oneself "Is it architecture?"

Early in this century a great deal was written about functionalism. We all know that the early theories, that if a thing functioned it was bound to be beautiful, have been disproved time and again. But function should also be regarded as a stimulus. It can clear the mind and simplify the problem if one is interested in function; it is a stimulus, but it cannot be the final goal. Here, again, the question has to be asked: If function is an important stimulus, does it produce in the end architecture?

In my presidential address I drew some conclusions from beautiful buildings in the Acropolis in Athens. It has often puzzled me that the columns and entablature, beautifully worked in pentelic marble with engineering precision, culminating in that supreme work of art, the Parthenon, was made up of forms entirely designed for wooden construction, forms that had a structural significance in wood which are purely decorative in the final form on the Acropolis.

How is it, then, that the Parthenon is great architecture? I can't help thinking that the Greeks passed through the phase of truth in structural expression and entered into the sublime portals of perfection; they produced in the end great architecture.

I think that another constant, besides the enclosure of space, is the complete understanding of scale. The art of designing to the human stature is a subtle, difficult and interesting phenomenon. I firmly believe that we British architects understand this extremely well, and, believe me, I consider it a very great gift to be able to understand this very important facet of great architecture.

I also feel that quality is another constant. Quality, of course, is one of the eternal ingredients, but quality has many interpretations. I believe that the rough concrete of some of Corbusier's buildings has quality; I believe also that the Parthenon in pentelic marble has quality. Our cathedrals, glorious in their stone and their beautiful



carving, have quality. I believe that Mies's Seagram building has great architectural quality.

These never go out of fashion. These are only three of the elemental properties that make up great architecture. There are other constants like unity, vitality, conviction and evidence of genius in the author. Of course, there are stimuli which drop away when current conditions are forgotten and have to be looked up in history books; I refer to the social problems, the technical problems and the economic problems. All these drop away like dead leaves, leaving the building stark and naked to be seen for what it is. Even today when we go into an Adam house we look at it as architecture, we appreciate the space, we look at the doors, the proportions and scale, we look at the furnishings, we do not condemn by saying that the kitchen is very far away and most inconvenient, because in Robert Adam's day there were many servants. We do not consider the plumbing and the heating arrangements inadequate by today's standards as crippling. We look at it as architecture.

I must say that I was fortunate in experiencing one of the great privileges that could be afforded to any architect: that is to work with a genius. I worked with Lutyens many years ago, a quarter of a century to be exact, and recently when I visited Liverpool, where I am building a physics building, I went into the crypt of the Roman Catholic Cathedral there. I had recently visited Ronchamp and I was struck by the similarity in the weight and strength, and the desire to create space using depth of material, strongly modelled. Ronchamp, to me, is very similar in essence to the crypt of Lutyens' cathedral in Liverpool. The mouldings, of course, are Palladian in the crypt, where Corbusier does not use mouldings at all, but there is this understanding of what great architecture is, that is common to these two great men.

I would like to stick my neck out now and make a prediction. I think that Lutyens will come back into favour in the future. He has been under a cloud since his death, but I think there will be a gradual coming back to the appreciation of this very great man.

As a sidelight on these geniuses is an interesting common factor, that is their attitude towards their clients. When Frank Lloyd Wright was asked his opinion of clients, he said, "Oh, clients? Poor creatures." There is, of course, the story of Frank Lloyd Wright which I heard from the lips of Eddy Kaufmann whose father had commissioned that famous house, Falling Water. He wished to have a house party and he got in touch with the caretaker who reported that water from the roof was leaking in the dining room of the guest house, and with great difficulty Kaufmann senior got in touch with Frank Lloyd Wright over a network of telephones. He said, "The roof's leaking in my guest house at Falling Water", rightly named. Frank Lloyd Wright was quiet, he said, eventually, "Where is it leaking?" "In the dining room, on top of the table. What am I to do?" Frank Lloyd Wright answered, "Move the table."

Lutyens had the same attitude, and this story I am going to tell you illustrates his puckish sense of humour. In one of his country houses for which he was famous, he had designed a bedroom with a double back-to-back fireplace going through the centre of the room, leaving it as a free-standing element. When the client asked "Why?" Lutyens said, "I thought it would be very nice to chase a woman round that." This shows amazing self-confidence, which I think is common to all people who are seed-sowers of great architecture.

But I have left out the last one great factor which cannot be ignored: the personal belief in what you are doing.

There must be no hesitation. There must be complete accord within yourself. There must not be the flipping through the journals to see what you can pick up to make your design look all right. It must be more fundamental than that. It is, in other words, dedication to this great art of architecture and to dedicate yourself with belief, because I believe that in every one of you rest seeds of the British genius, in varying degrees, of course, the seed of quality, of scale, of appreciation of material, and of humanity. Nurture it, do not be apologetic, allow it to grow, be proud of it, it is your heritage.

## Coming Events

### The Scottish Design Centre

January 24 to March 21, from 10 a.m. to 6 p.m. "Cloth Fair". At 46 West George Street, Glasgow, C.2.

### Irish Exports Centre

January 27 to March 6. Monday to Friday, 10 a.m. to 5 p.m., and Saturdays, 10 a.m. to 12 noon. Exhibition, "Irish Religious Goods and Ecclesiastical Art". At 235/241 Regent Street, London, W.1.

### Royal Society of Arts

February 4 at 2.30 p.m. An Alfred Bossom lecture, "The Mechanization of Building Constructional Processes", by D. G. R. Bonnell, M.Sc., Ph.D. At John Adam Street, W.C.2.

### B.C. Third Programme

February 6 at 9.45 p.m. "Le Corbusier", by Berthold Lubetkin, Graeme Shankland, James Stirling, Colin Rowe and George Kassaboff.

### Royal Institute of British Architects. (Library Group)

February 9 at 6 p.m. David Mocatta, introduced by David Cole, A.R.I.B.A. At 6 Portland Place, W.1.

### The Housing Centre Trust

February 10 at 6 p.m. "Prague Revisited and Reassessed", by Walter Bor, A.R.I.B.A., A.M.T.P.I. At 13 Suffolk Street, Haymarket, S.W.1.

### Cement and Concrete Association

February 10 at 7.30 p.m. "An Introduction to Prestressed Concrete", by R. C. Blyth, M.A., M.I.C.E., M.I.STRUCT.E., F.I.P.H.E. At the Lecture Theatre, Maidstone Technical College, Maidstone.

## LEVER DOOR HANDLE COMPETITION

The prize-giving is commented on by Abner, page 145. Below is the key to designs illustrated

9

### Group 1—prize of £45 each

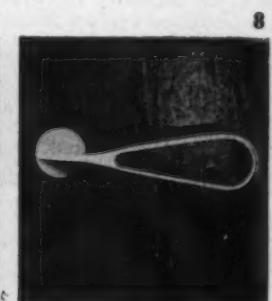
1. Eric Delf
2. Peter F. Ralph
3. Roger S. Edmunson

### Group 2—prize of £30 each

4. R. R. Gray
5. J. E. Heritage
6. T. F. Belsky

### Group 3—prize of £10 each

8. Kenneth G. Sadler
9. A. Butowsky



## NEWS CONTINUED

Continued from page 147

tackle this problem the Clean Air Act empowers local authorities to make orders creating areas in which smoke is banned from any chimney, unless specifically exempted.

He is asking that councils in "black areas" should now consider their domestic smoke problem as a whole (if they have not already done so) and decide on the smoke control orders that are needed, in what order of priority they should be made, and how many years it is likely to take to finish the job; and that they should then prepare a phased programme for establishing smoke control areas over the next five years.

### Clean Air Act—New By-Law

The Town Planning Committee of the L.C.C., with the agreement of the Health Committee, recommended the making of the following building by-law at the council meeting yesterday:

*"Smoke Prevention."*—There shall be provided in a new building (except in so far as heating is provided by furnaces to which section 3 of the *Clean Air Act, 1956*, applies) only such appliances for heating or cooking as are suitably designed for burning any of the following fuels, namely: (a) gas; (b) electricity; (c) coke or anthracite; or are appliances of a description exempted from the provisions of section 11 of the *Clean Air Act*,

1956 (which relates to smoke control areas) by an order for the time being in force under sub-section (4) of that section."

Objections may be made by letter to the Minister of Housing and Local Government within six weeks after the publication of advertisements in the Press and technical journals. The provisions of the Clean Air Act generally are operated in London by the borough councils, but the proposed new by-law will be enforced by the L.C.C. as part of its general control of building. If approved, the by-law will be added to Part X of the London Building (Constructional) By-laws, 1952.

### Arbitration Bar Benders and Fixers

The Industrial Disputes Tribunal, which heard the claim, on January 6, for craftsmen's rate of pay for qualified benders and fixers, has found that the claim has not been established.

### Grants for 33 Historic Buildings

Another 33 grants towards the preservation of historic buildings in England, Wales and Scotland, were announced by the Minister of Works recently. Town properties figure more prominently than country houses in the present list. There are civic buildings, like the Assembly Rooms at Derby, the Moot Hall at Hexham, and the Debtors' Prison at York; Georgian houses in Coventry, at Highgate, and in the heart of London; a shop in Brighton and a Regency terrace in Hastings are also included.

## Law and Administration

### "Rates of Wages"

Common forms of building contract usually contain among the clauses included one which makes provision for the effect of wage-rate fluctuations in the contract price. This provision is, for example, set out in Clause 25A of the R.I.B.A. standard form of contract. Such clauses normally provide that if the "rates of wages" payable by the contractor are in certain circumstances increased or decreased then corresponding changes shall be made in the contract price. The actual phrase used in the R.I.B.A. contract is somewhat wider, being "rates of wages and other emoluments and expenses".

The Court of Appeal have recently been asked to decide whether the usual phrase "rates of wages" embraces sums payable by the contractor in respect of his employees to an agreed holiday scheme.

"Broadly speaking, the idea of this holidays scheme is that a sum is put aside each week for each employee who is then able, when the time comes for him to take his holidays, to draw out the amount standing to his credit. The question, put shortly, is whether the sum credited to the employees under the provisions... are within the clause... so that the contractor is entitled to demand payment if those holiday sums are increased, as they were in the present case."

The case concerned was *Henry Boot & Sons Ltd. v. London County Council*. The Court considered that the holiday scheme in question was one which was covered by the clause so far as the necessary approvals were concerned since it had been agreed between an association of employers and the appropriate trade union. Examining the clause of the contract involved, Lord Somervell remarked:

"That clause is dealing with increases or decreases in the rates of wages; and I have come to the conclusion that a weekly sum which has to be credited to a man each week is within the expression "rates of wages" in this

clause. It is not a point which is capable of much elaboration; but if there is an increase in the amount by which each employee is credited at the beginning of each week in respect of this holiday scheme, it seems to me natural enough, for the purpose of this clause, at any rate, to say that the 'rates of wages' in respect of him have been increased."

The Court of Appeal were unanimous in this view, but leave has been given to appeal to the House of Lords.

### The Meaning of Words

This case had another and almost equally interesting aspect. Before the contract under consideration was made, the L.C.C. wrote to the London Master Builders' Association saying:

"With reference to our recent conversation on increased costs, I have to confirm that Clause 23A of the contract restricts the increase or decrease to rates of wages payable only. Increases in the cost of holiday pay stamps are, therefore, not allowable."

If this letter had been incorporated in the contract the matter would, perhaps, have been beyond dispute, but it was not.

Its actual relevance is summarized in an old case in which it was said:

"The general rule seems to be, that all facts are admissible which tend to show the sense the words bear to the surrounding circumstances of and concerning which the words were to be used, but that such facts as only tend to show that the writer intended to use the words bearing a particular sense are to be rejected."

Lord Somervell summarized the effect of the L.C.C. letter by observing:

"The letter is, on the face of it, saying: 'This is what we say these words mean'; I think that the contractor was entitled to reply: 'We do not agree with that; we accept your contract, and let the court decide whether you are right, or we are'."

"The employers could have altered the contract by putting in express words, but they did not choose to do so; and, therefore, I think it falls to this court to follow the ordinary rule, and to construe the contract as it was agreed between the parties."



The showroom is designed to be seen readily by passing motorists. The show window is virtually continuous, and the deep canopy above acts as a foil against reflection. High-level glazing permits strong illumination of the arched rear wall

Photos: COLIN WESTWOOD

## MOTOR SHOWROOM, STAINES

Architects: WESTWOOD, SONS AND PARTNERS

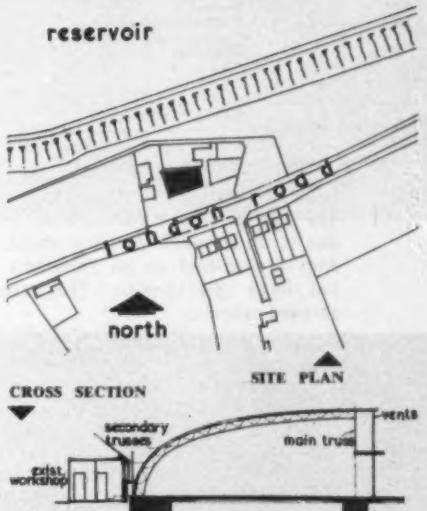
Structural Engineer: CYRIL BLUMFIELD

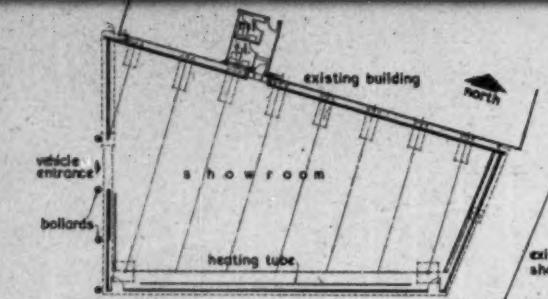
THE main design factor of this motor showroom at Staines, for E. J. Baker & Co. (Dorking) Ltd., was the provision of an uninterrupted display window which could be clearly visible to the passing motorist. The client strongly felt that multiple division of the window would result in ineffectual display, and therefore the essential requirement was an unbroken show window about 80ft long, free from reflection and obstructions and with a simple background. Although obviously the glazing had to be sub-divided, the use of extremely slender mullions has not detracted from a particularly successful solution to the problem.

### Construction and Materials

The roof is supported on light tubular steel arches which spring from floor level. Owing to the irregular plan form in which no two walls are parallel, each arch has a slightly different shape. Ends of arches are carried on a steel truss of 72ft clear span, supported on two 4in by 4in stanchions. Roof covering is in aluminium sheets, chosen for their reflective qualities, and for their 20ft lengths, which allow joints to occur at the best weathering position well down the roof slope.

The design is equally successful with artificial means of illumination. The building becomes a transparent showcase with a brightly lit background

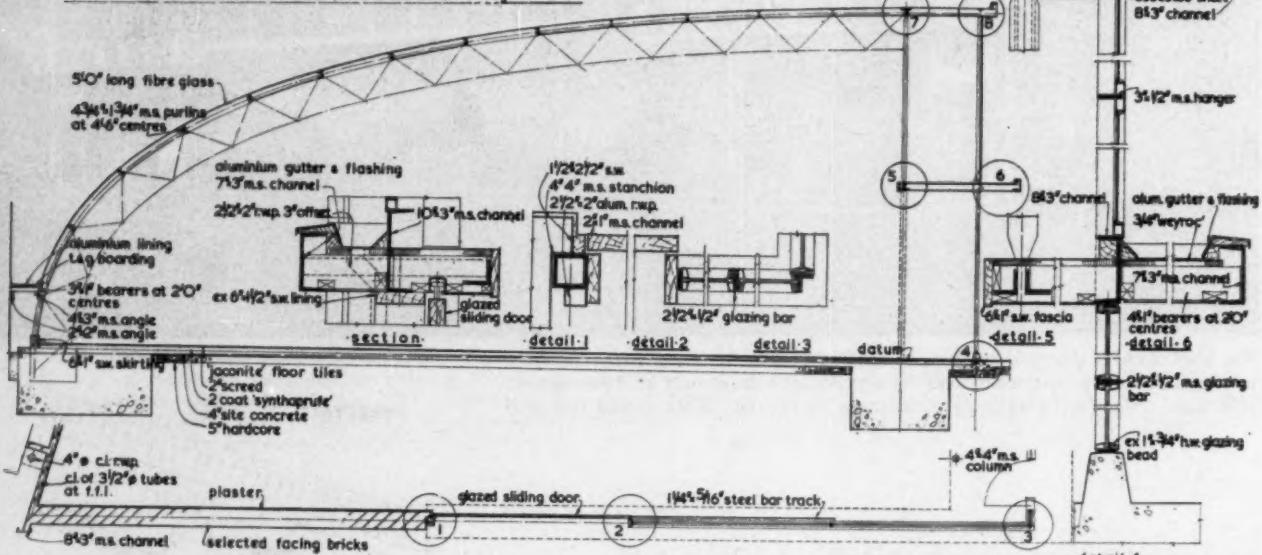




THE ARCHITECT and Building News, 4 February 1959

PLAN  
SCALE:  
1 IN.=40 FT.

**CONSTRUCTION DETAILS  
AND CROSS SECTION  
SCALE: 1 IN=10 FT**



The tubular steel arches are all specials due to an irregular building shape. The ends are carried on an extremely light, but large span truss. The ceiling is sprayed asbestos.

**CAR SHOWROOM, STAINES**



As there was bound to be some movement in a structure as light as this, the choice of a ceiling finish was restricted. Sprayed asbestos met this requirement and also provided excellent acoustic conditions. The softness of the surface is a disadvantage, but up to the level of the lowest windows it was sprayed with a hard coating.

A canopy suspended from the bottom boom of the truss acts as a wind brace, and as a baffle to reduce reflection on the display window. The reduction of reflections is mainly achieved by generous roof lighting through acrylic sheets.

### Cost

Total cost was £15,540, which works out at 70s 8d per sq ft of usable floor area, or 4s 2d per cu ft.

**General Contractor:**

GEORGE JARVIS & CO. LTD.

#### **Sub-contractors and suppliers:**

Ceiling: Carter-Horseley (Engineers) Ltd. "Dolamento" Floor: Jaconello Ltd. Electrical Work: A. Long. Glazing and Glass: James Clark & Eaton Ltd. Ironmongery: Steddall & Co. Ltd. Metal Windows: Ideal Casements (Reading) Ltd. Roofing: Carter-Horseley (Engineers) Ltd. Steelwork: R. Smith (Horley) Ltd.



General view of the garage, and two-level showroom

## COACH SHOWROOM AND GARAGE, SHEFFIELD

Architect: T. I. FRITH

Quantity Surveyor: M. E. G. FELTON

THIS garage and showroom at South Anston, near Sheffield, was required by Kirkby & Sons (Sales) Ltd. who specialize in the sale of new and second-hand motor coaches. The clients required a headquarters on the main road, with facilities for reception of their customers, a repair shop and display rooms for coaches, and offices for their sales staff. A managing director's flat over the building was also required.

The garage is situated in a prosperous agricultural and mining area, and it was felt that the sale of petrol would be a useful adjunct to the business. This led to the provision of a greasing bay which, if proved unjustified, can be converted into a small two-level garage.

### Planning

The site falls away steeply from the roadway, and a filled forecourt had to be provided. The repair garage, lower greasing bay, boiler room and stores are therefore at basement level. The main offices, upper showroom, greasing bay, and entrance to the manager's

flat are at ground floor and entered from the forecourt. The reception area is fronted by a small display window containing accessories, adjacent to the main two-level showroom.

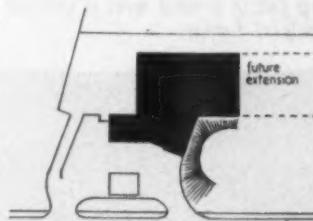
### Construction and Finishes

Main building: load-bearing walls, with R.C. floor beams and prestressed roof beams. Flooring, grano in basement and garage, and thermoplastic tiles in offices and flat. Roofing, vermiculite insulating screed with asphalt finish.

Showroom: steel-framed construction, and load-bearing walls. Upper floor, prestressed concrete beams. Flooring, thermoplastic tiles. Display windows, glazed timber sliding-folding doors, and purpose-made window-wall of steel sections.

Repair building: steel framed with asbestos-sheet cladding.

Petrol station: the pumps are grouped in one island with the kiosk, and only the Derv is isolated. The canopy has reinforced concrete columns covered in aluminium deck and three-layer felt. The underside of



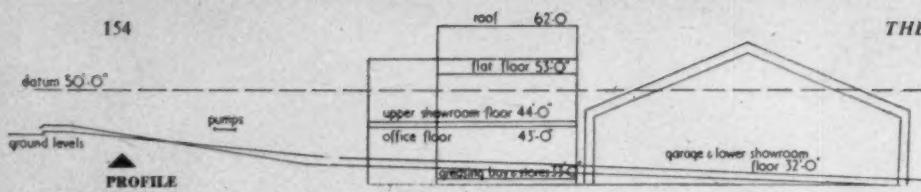
the deck is left exposed and the undulations accommodate four 8ft long fluorescent tubes to each bay, 12 in all.

### Services

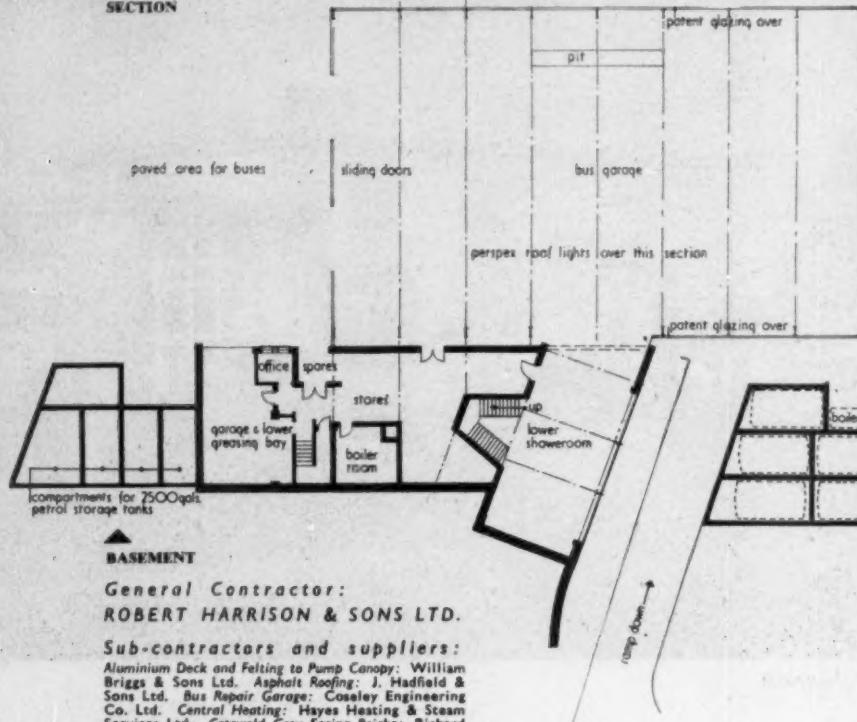
Heating is by low-pressure hot water supplied by an oil-fired boiler to warm-air blowers in garage and showrooms, convectors in offices and radiators in the flat. The system is thermostatically controlled throughout. Hot water to the flat is supplied by an immersion heater, with electric water heaters in each cloakroom.

### Cost

Contract price was £27,570 19s 2d.



PROFILE SECTION



BASEMENT

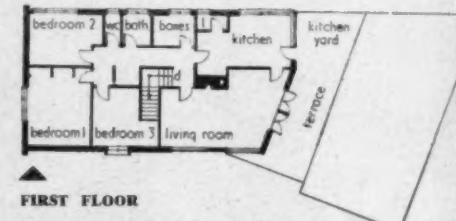
**General Contractor:**  
**ROBERT HARRISON & SONS LTD.**

**Sub-contractors and suppliers:**  
Aluminium Deck and Felt to Pump Canopy: William Briggs & Sons Ltd. Asphalt Roofing: J. Hadfield & Sons Ltd. Bus Repair Garage: Cossley Engineering Co. Ltd. Central Heating: Hayes Heating & Steam Services Ltd. Cotswold Grey Facing Bricks: Richard Thomas & Baldwins Ltd. Flooring in Thermoplastic Tiles and Handrails in Marleyroll: Marley Tile Co. Ltd. Ironmongery: Lewis & Grundy Ltd. Plastering, Wall-Tiling, Monolithic Floors: George Peacock & Sons Ltd. Plumbing: J. H. Johnson. Pre-cast Concrete Frames to Pump Canopy: Jas. Turner & Sons Ltd. Sanitary Fittings: John Norton & Sons (Sheffield) Ltd. Windows and Showroom Glazing: Henry Hope & Sons Ltd.

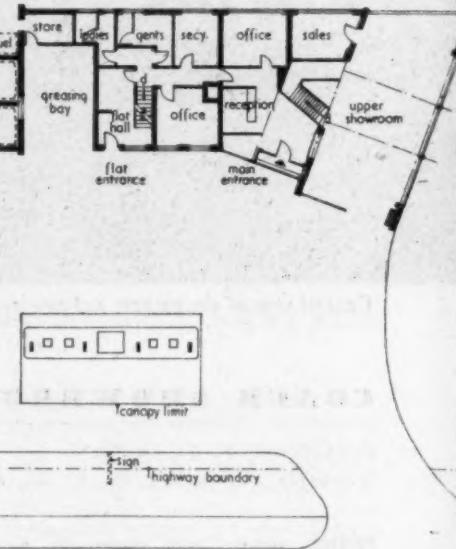
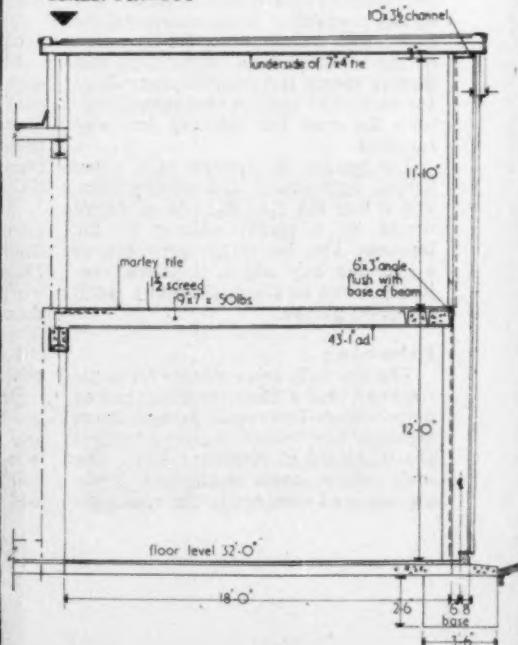
A sharp fall in ground level is utilized  
for two-level display



## GARAGE AT SHEFFIELD



FIRST FLOOR

GROUND FLOOR  
SCALE: 1 IN=32 FTSECTION THROUGH SHOWROOM  
SCALE: 1 IN=8 FT



## GARAGE AND SHOWROOMS, BRISTOL

Architect: C. W. HUTTON

Assistant in Charge: G. P. MYERS

Structural Engineer: H. G. COUSINS

Quantity Surveyors: BANKS, WOOD AND PARTNERS

THE new garage and motor showroom at Clifton, Bristol, for Windmill & Lewis Ltd., replaces their previous premises on the same site which were war damaged.

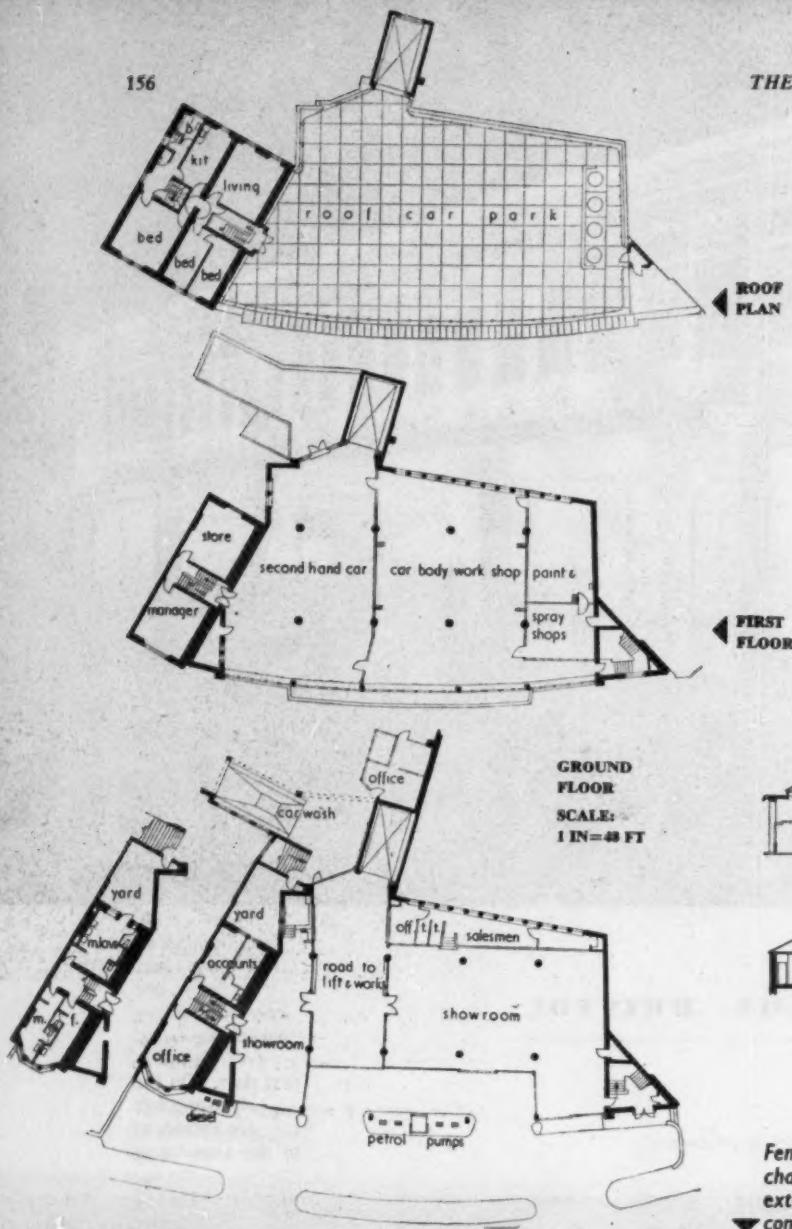
The new design had to take road improvements into account and by collaborating with the corporation, exchanging the land on the opposite side of the road and a set-back of part of the frontage of the old building, it was possible to obtain a generous forecourt.

In the elevational treatment, the architect was anxious to respect the Georgian character of Clifton and at the same time to build a good modern garage. With these ideas in mind the fenestration has been kept regular, the cornice is a variation on a classical theme but in pre-cast concrete, and string courses of extruded aluminium provide delicate moulding in a mass produced material.

The design provides for showrooms and an access roadway to the rear workshops on the ground floor, a

Top, illuminated main view.  
Below, the covered roadway to workshops, and vehicle lift to first floor. On the right and left are entrances to the showrooms

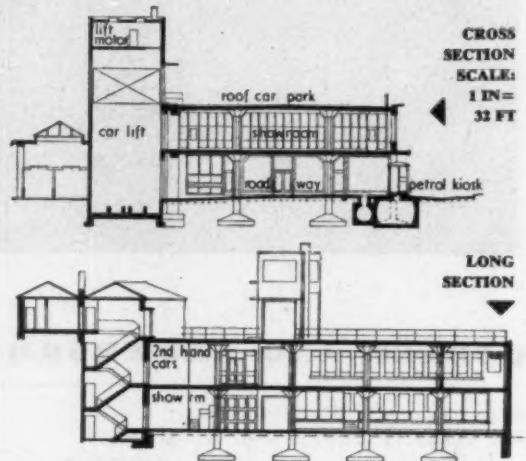




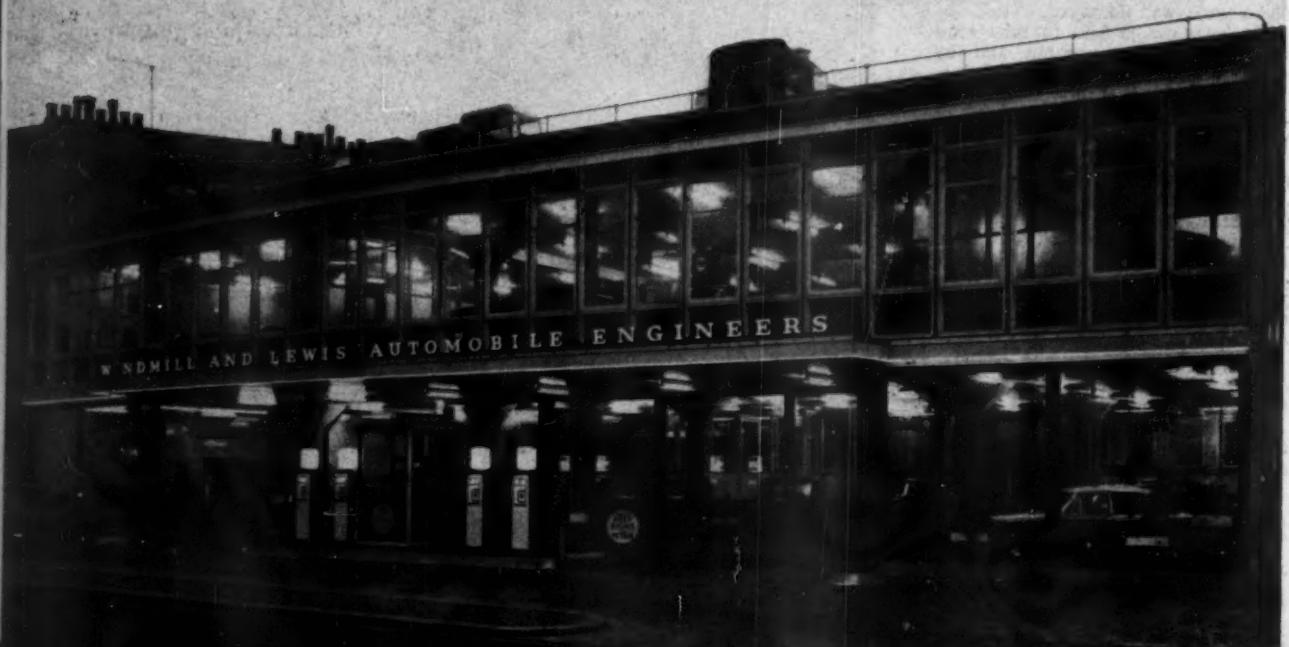
second-hand car showroom, body shops and spray shop on the first floor with a roof car-park, believed to be the first in Bristol. Provision has been made for extending the building vertically in the future. The adjoining house in No. 8 Merchants Road has been converted into offices and a self-contained flat for one of Windmill & Lewis' employees. Offices are provided at ground floor at the side and rear of the showroom.

#### Construction and Materials

The construction of the building is of reinforced concrete with mushroom headed columns supporting 9in thick concrete floor slabs. This form of construction gives the maximum headroom and eliminates deep beams which would be required over the large spans with normal frame construction. Access to the ground floor is obtained through large-sliding plate-



Fenestration is made regular to respect the Georgian character of Clifton. String courses are faced in extruded aluminium, the moulded cornice is pre-cast concrete, and spandrel panels are vitreous enamelled steel





## GARAGE AT BRISTOL

glass windows framed with Honduras mahogany, chosen for its stability and freedom from warping. Metal framed doors would have been more costly. These showrooms are finished with woodblock floors.

The finishes have been selected for durability or economy. The columns are painted over the bare concrete, walls have been plastered on the ground floor only, hardwood has been used to avoid repainting. The first-floor showroom and workshops have a plain granolithic floor finish. Windows are steel, in wooden supporting framework which is bolted to the reinforced concrete. The floors required supporting beams along the outside edge, which have been placed above the slab and covered with vitreous enamelled steel panels, to give a touch of colour to the elevations. Apart from washing down, these panels should require no attention for an indefinite period.

The canopy is edged with extruded aluminium fascia. The overhanging concrete cornice has a moulded soffit, and is built of pre-cast sections. Wing walls and end piers are faced in Bath stone.

### Cost

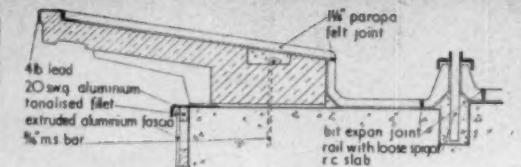
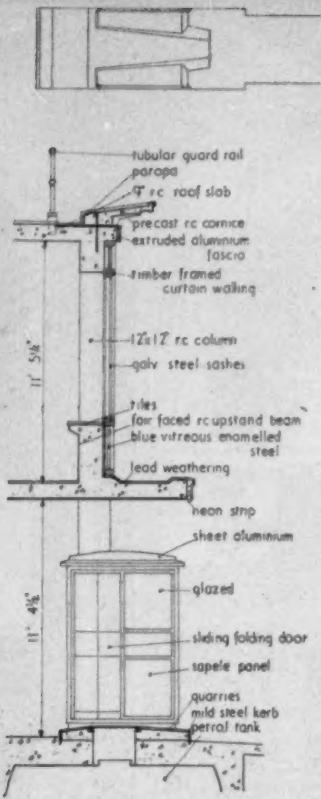
	Cost £	Cost per ft sq. s d
Workshop extension ..	4,200	
No. 8 Merchants Road:		
Alterations and repairs ..	6,400	
Forecourt and petrol kiosk ..	2,700	
Main garage building:		
(a) Structure ..	37,600	54 4½
(b) Internal finishings ..	3,600	5 2½
(c) Services: lift, heating, lighting, plumbing, etc. ..	17,500	25 3½
Total ..	£72,000	84 10½

All costs are shown exclusive of professional fees. Preliminaries, insurances and estimated increased costs have been allocated to each item on a proportional basis.

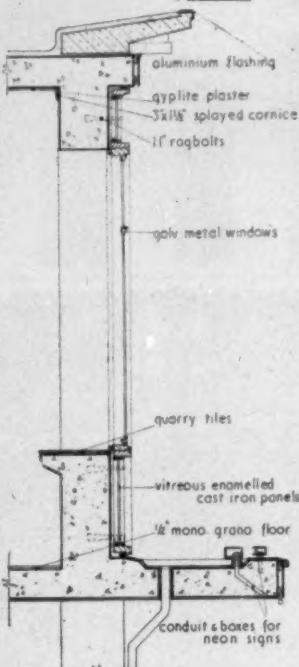
The raised dais conceals heating and ventilation plant, and provides a reception area for sales staff. Mushroom columns are used to avoid deep beams and to reduce the building cube

Timber staircase serving the adjoining office conversion

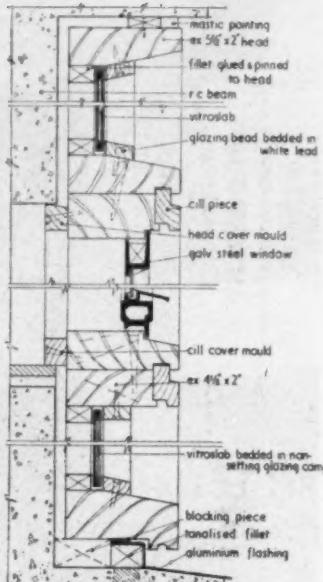




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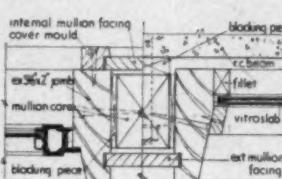
## **CONCRETE CORNICE**



**FRONT WALL  
SECTIONS  
SCALE: 1 IN.=4 FT  
AND 1 IN.=8 FT**

SCALE: 1 IN.=4 FT  
AND 1 IN.=8 FT

PLAN AND SECTION  
CURTAIN WALL  
SCALE: 1/8 E.S.



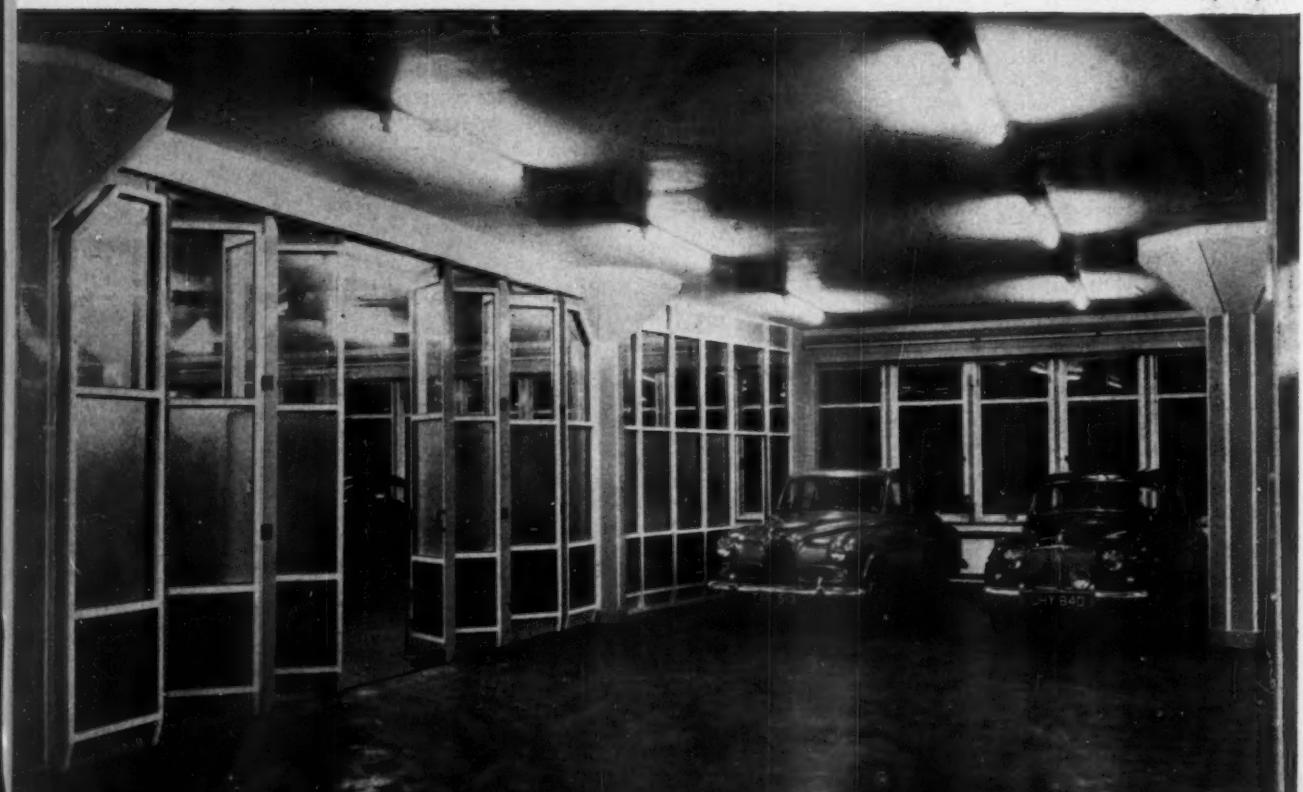
## GARAGE AT BRISTOL

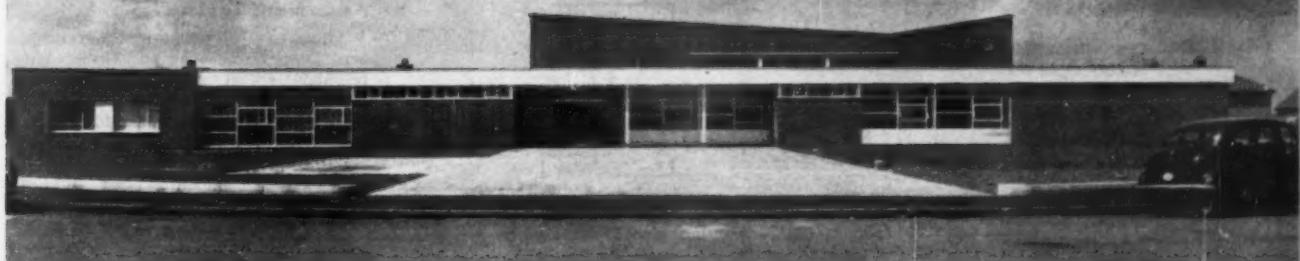
General Contractor: C. H. Pearce & Sons (Contractors) Ltd.

#### **Sub-contractors and suppliers:**

**Acid-etched Glaze:** Bristol Glaziers Ltd. **Air Tower:** Pneumatic Components Ltd. **Aluminium Fascias:** Northern Aluminium Co. Ltd. **Amplifier and Loudspeakers:** Dictograph Telephones Ltd. **Bath Stone:** George V. Williams & Sons Ltd. **Bourne Seal:** Floor Treatments Ltd. **Bricks:** London Brick Co. Ltd. **Carpeting:** Lincoln Ltd. **DLR Curtains:** Newberry & Spindler Ltd. **Electrical:** F. H. Wheeler (Bristol) Ltd. **External Balustrading:** F. & R. Edbrooks Ltd. **Flags and Poles:** Joseph Bryant Ltd. **Floor Polishing:** Columbus-Dixon Ltd. **Fluorescent Fittings:** New Era Ltd. **Gas Fitting:** South-Western Gas Board. **Glass Domelights:** W. Goldman & Son. **Glazing:** John Hall & Sons. **Granolithic Floors:** Frodorite Ltd. **Hendrailing Standards:** Battles & Sons Ltd. **Hoodword:** William Mallinson & Sons Ltd. **Hardwood Floors:** Vigers Bro. Ltd. **Heating and Ventilating:** Brightside Heating & Engineering Co. Ltd. **Hornstone:** J. Whitehead & Sons Ltd. **Illuminated Signs:** Made to architect's design by Brightside Signs Service. **Internal Balustrading:** M.A.C. Engineering (Bristol); James Gibbons Ltd. **Internal Telephones:** Telephone Rentals Ltd. **Internal Wallcoverings:** James Gibbons Ltd. **Mobile Winders:** New Haven Ltd. **Office Furniture:** Lincoln Furniture. **Hairdressing:** Haffdowd (Merton) Ltd. **Perspex Domelights:** W. J. Cox Ltd. **Petrol Installations:** Regent Oil Co. **Plaster:** Gyproc Products Ltd. **Plumbing:** Arthur Scull & Son Ltd. **Pre-cast Stone and Concrete:** Bristol Stone & Concrete Co. Ltd. **Showrooms, Doors and Windows:** Esvian Ltd. **Sign Writing:** William Cowlin & Sons. **Sliding Door Gear:** C. P. Henderson Ltd. **Steel Reinforcement:** Rom River Co. Ltd. **Tecalemit Installations:** Tecalemit Ltd. **Vitreous Enamel Panels:** J. R. Pearson Ltd. **Wallpaper:** Cole & Son (Wallacean) Ltd. A. Sanderson & Sons Ltd.

**Car showrooms, first floor**





East elevation from Church Street, and paved forecourt entrance

## MINERS' WELFARE CENTRE

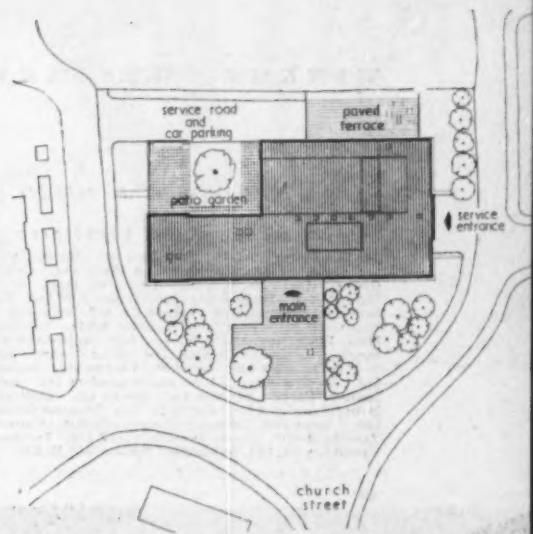
Architect: MICHAEL MOSS

Assistants: R. H. FAULKS and G. H. SIMPSON

THE village of Bilthorpe is one of the most isolated of the colliery communities in Nottinghamshire and up to the completion of this project the recreational facilities for the mining community were very poor. The existing working men's club, which for all intents and purposes was used as the miners' institute, was inadequate, although the village hall was used for cinema shows and concerts. The sports grounds are on the outskirts of the village and there are good facilities for football, cricket, bowling and tennis. The main requirement for Bilthorpe was for a new building to take the place of the working men's club and village hall

and in 1955 the Coal Industry Social Welfare Organization commissioned this new project.

The existing institutes in the East Midlands Division and other mining areas are very similar to one another in planning, design and construction, and are completely out-dated. Since the building of these pre-war institutes mining communities have changed considerably with regard to their living standards, general outlook, and social position, and it was for this reason that something completely new was required at Bilthorpe. The size and the remoteness of the village demanded a new conception of the welfare institute, the accommoda-

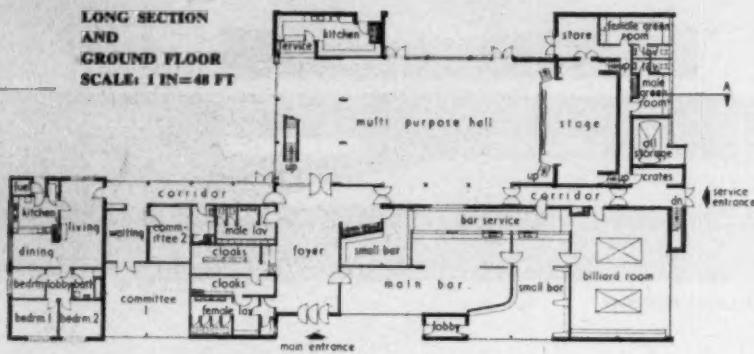


Paved forecourt and main entrance to foyer and licensed bars





LONG SECTION  
AND  
GROUND FLOOR  
SCALE: 1 IN=40 FT



## MINERS' WELFARE CENTRE

General Contractors: A. MASON (Contractors) LTD.

### Sub-contractors and suppliers:

Bar Equipment: Gaskell & Chambers Ltd. Bar Fitting: Hopson (Shop & Storefitter) Ltd. Billiard Tables: Burroughes & Watts Ltd. Catering Equipment: Pearson Bros. (Nottn) Ltd. Electrical Installation: G. Dodd Ltd. Emergency Lighting: Sound Diffusion Ltd. Facing Bricks: Williamson, Cliff Ltd. Fibrous Plaster: W. J. Wilson & Son Ltd. Fire Equipment: Pyrene Co. Ltd. Furniture: Beresford & Hicks. Heating: Radiation Group Sales Ltd. Insulation Blocks: Thermalite Ltd. Ironmongery: Dryad Metal Works Ltd. Light Fittings: Falk, Stadlmann & Co. Ltd. Linoleum and Cork Flooring: Armstrong Cork Co. Ltd. Metal Windows: Henry Hope & Sons Ltd. Paint: T. & W. Parmitos Ltd. Partitions: Venesta Ltd. Reconstructed Stone: Trent Concrete Ltd. Reinforcement: G.K.N. Reinforcements Ltd. Roofing: The Rubberoid Co. Ltd. Sanitary Fittings: Adamsex Ltd. Service Lift: Keighley Lifts Ltd. Stage Equipment: Strand Electrical & Engineering Co. Ltd. Structural Steelwork: Neil Darroch (Engineers) Ltd. Suspended Ceilings: Paraclip. British Plasterboard (Manufacturing) Ltd. Venetian Blinds: Sunway Venetian Vogue Ltd. Ventilators: Greenwood's and Airvac Ventilating Co. Ltd. Wallpaper: Palladio W.P.M. Ltd.

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and layout had to be as flexible as possible to suit the many functions.

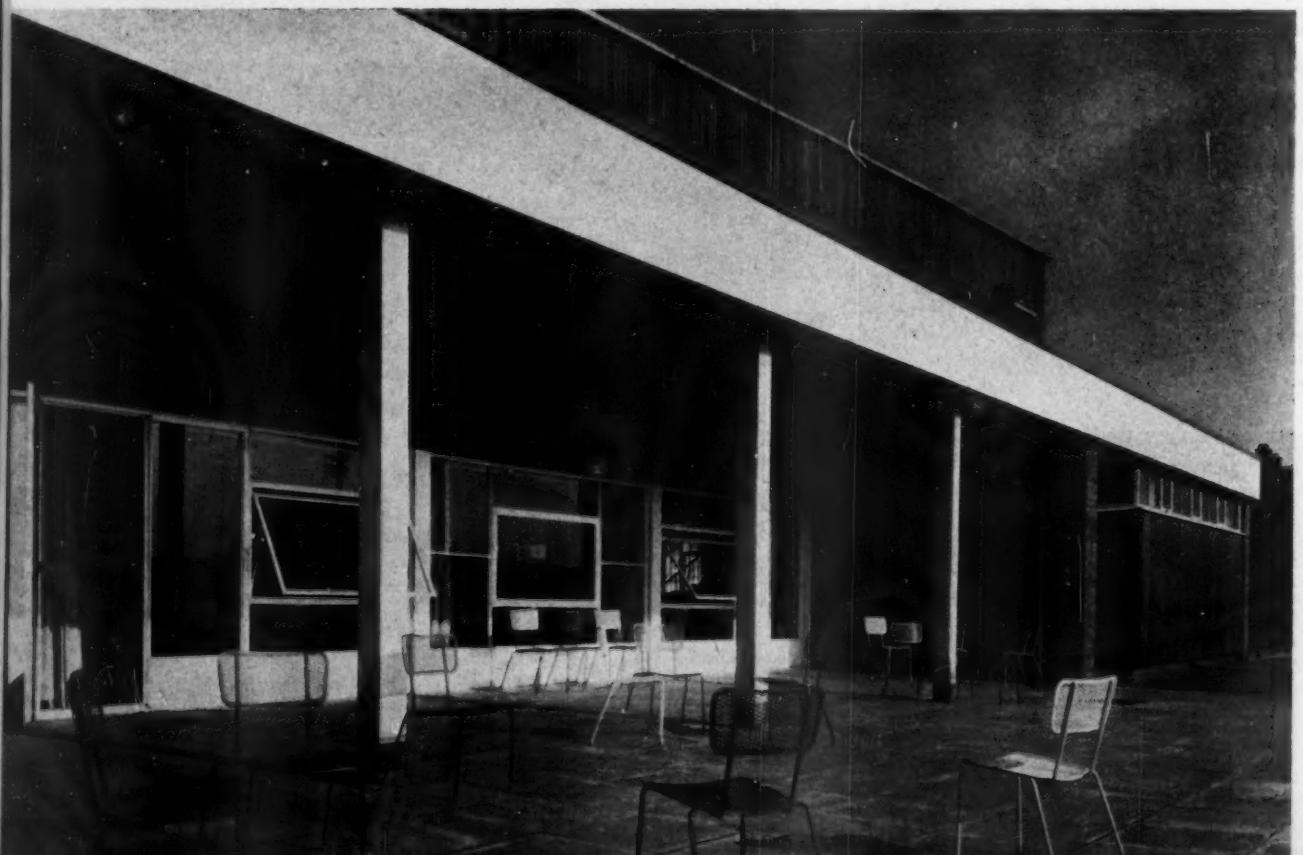
### Accommodation

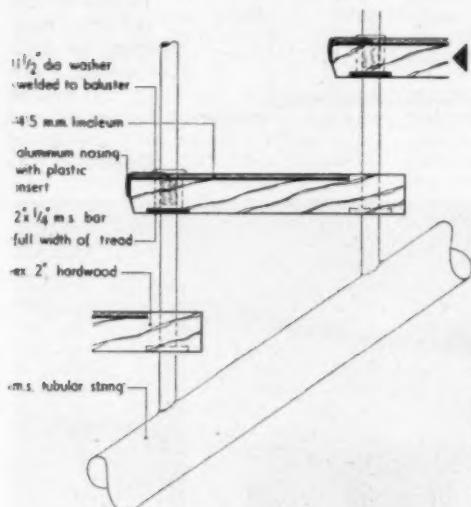
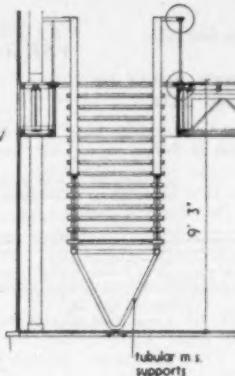
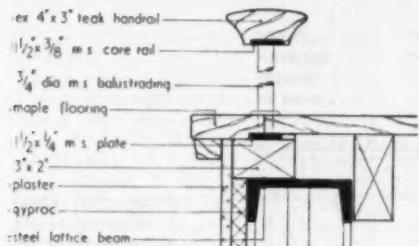
There is a fully-equipped bar service area which serves all three bars, billiards room and the main hall, with an electric goods lift to the basement. It is hoped that one of these bars will be a mixed bar as the accommodation in the majority of the existing institutes has not encouraged the miner to bring his wife or girl friend. It is hoped that the ladies will make use of the building for the various activities and opportunities that will now be provided.

The billiards room has two full-size tables which will enable members to enter match competitions and hold exhibition games. The large and small committee rooms can be adapted for other activities if required and will provide a meeting place for the various sub-committees and organizations of the centre. A residential steward's flat is attached to the main building with direct access, as the building will be in continuous use for one activity or another and someone in constant attendance is therefore essential.

The centre is constructed on an island site surrounded by the local shops and houses, on what was once a derelict and unsightly area of waste ground. There is a car-park and a service road to the rear of the building, although there is in fact no "rear elevation".

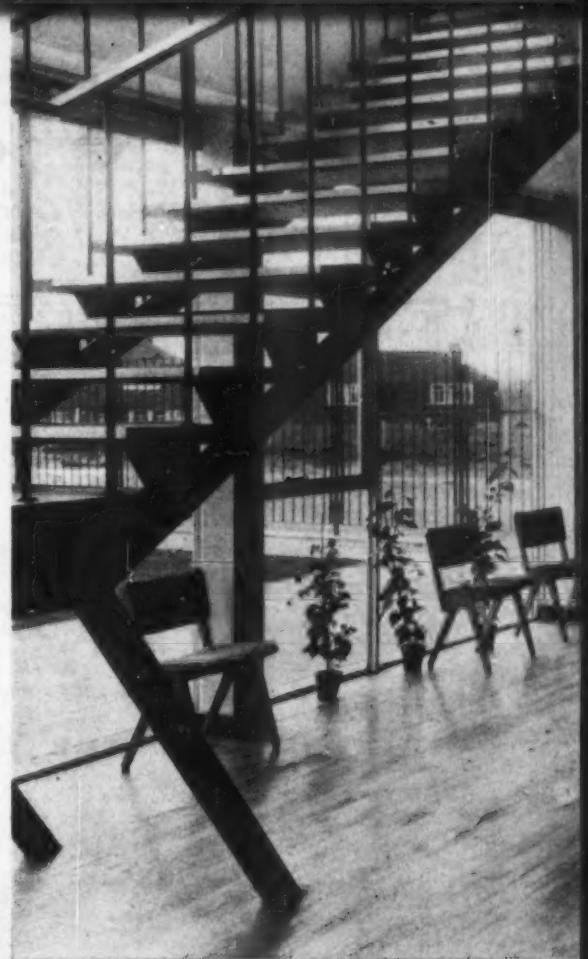
Sheltered terrace on the west side of the main hall





TUBULAR STEEL  
STAIRCASE  
SCALE: 1/8 F.S.

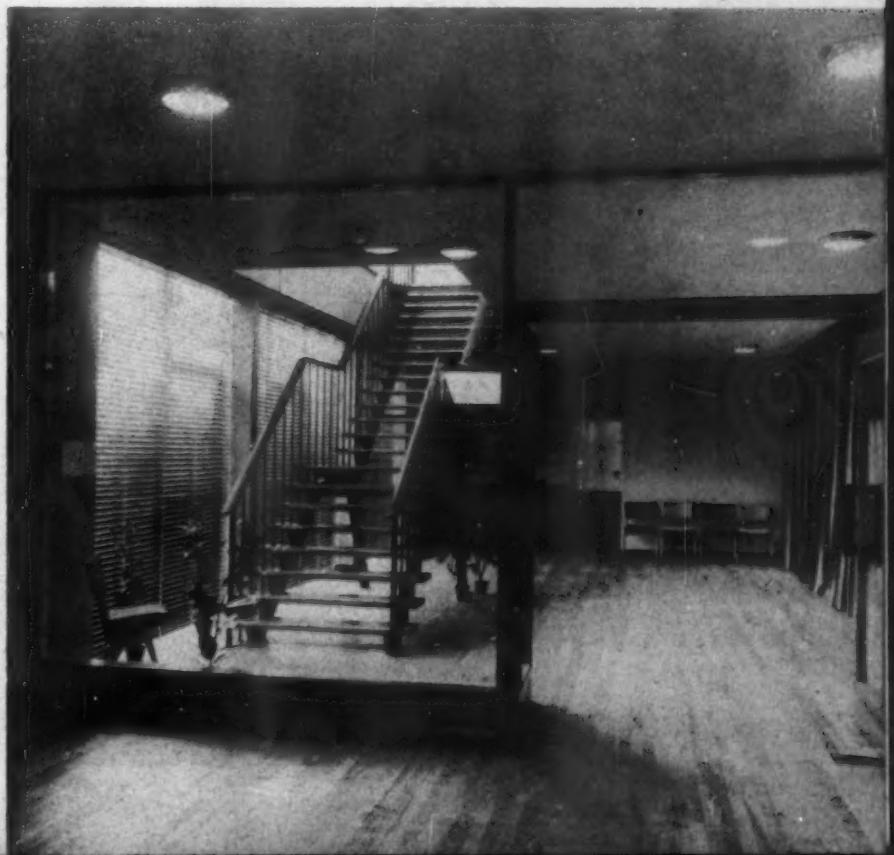
Staircase from the main hall to first floor balcony. The open hardwood treads are suspended on steel balusters, supported by tubular steelwork

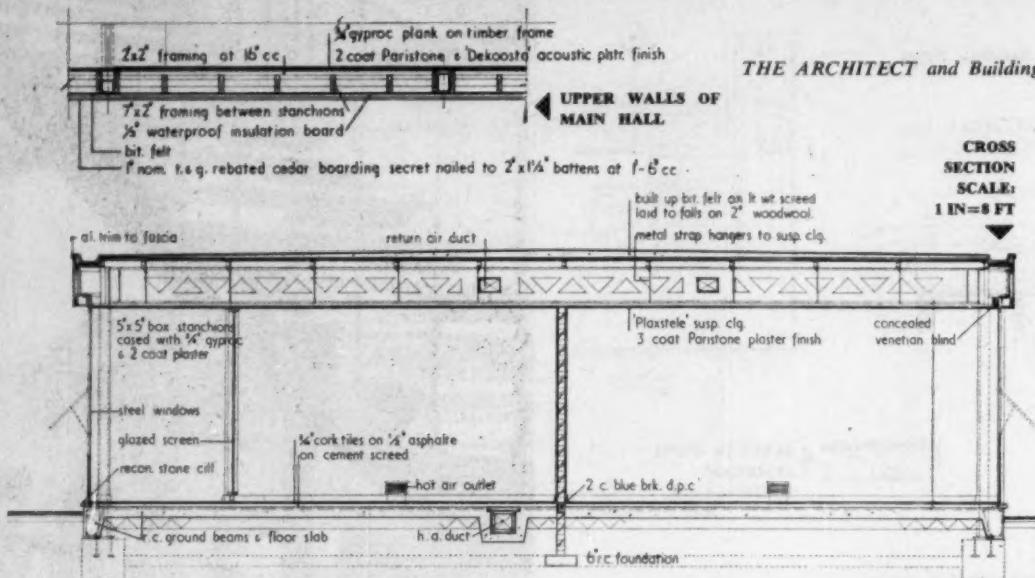


A curtained portion of the main hall, seen from the entrance foyer. Behind the staircase is a kitchen service counter

#### Construction and Materials

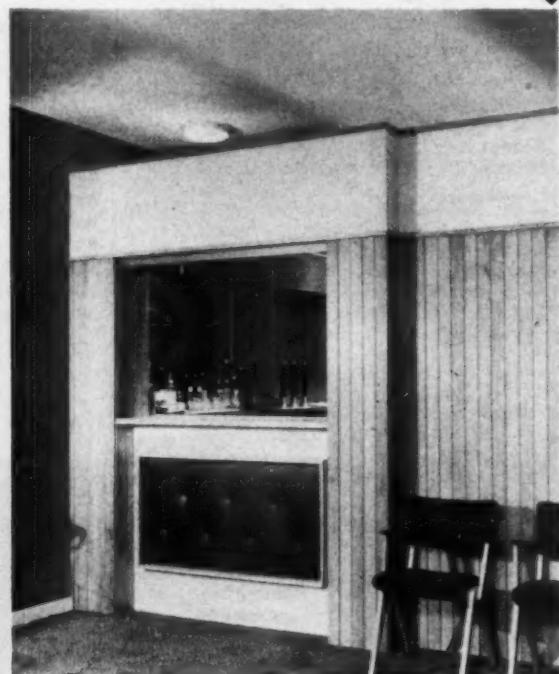
The building is steel framed on a mass concrete and R.C. strip foundation. The beer cellar directly below the bar service area is tanked with asphalt. The licensing authorities required a two-hour fire protection to all structural steelwork and this was obtained by using gypsum plank covered with a vermiculite/gypsum plaster. The internal partition walls are non-load bearing, the main welded trusses spanning 42ft at 12ft centres. The steel deck roofing is covered with insulation board over the main hall, and wood wool slabs on the lower areas, with a built-up felt finish. The heating is by warm air from units in the various sections of the building which can be operated independently as required. All ceilings are suspended to allow for the returned air ducting and services, etc. Certain units also supply hot water to the cloakrooms and bar service area. The upper walls to the main hall are clad externally with cedar boarding, the main walls are all 11in cavity brickwork with insulation blocks to the inner skin. All windows to the bars are double glazed.





Below, two views showing alcove and bench seating and a service counter in the two small bars. Bottom, the main bar counter, which has a white formica top and a front of Columbian pine

MINERS' WELFARE CENTRE



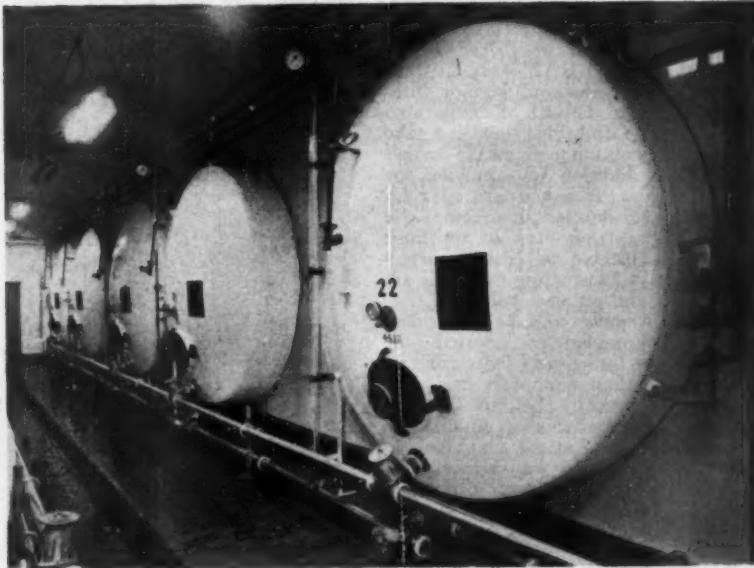
## Industrial Notes

● The Newcastle City Council has awarded a contract, valued at approximately £250,000, for the reinforced concrete frames of three 12-storey and three 15-storey blocks of flats to Leslie & Co. Ltd., building contractors of London and Darlington. Leslie & Co. submitted their tender for the design and construction of the blocks in association with John Liversedge & Associates, consulting engineers of London. The contract is part of a large redevelopment programme which is being undertaken by the City Council, and work is due to start in April, 1959.

● Work has begun on important new research laboratories at Lathom Park, Ormskirk, Lancs, for Pilkington Bros. Ltd., the glass manufacturers. It is hoped that they will be completed by June, 1960. The buildings will consist of a main block containing an orthodox type laboratory for small-scale research work, with offices, canteen and lecture theatre. There will also be a laboratory for the use of larger equipment and apparatus, and a large-scale laboratory and workshop, where complete new processes can be developed. The designers are Courtaulds Technical Services Ltd. and the contractors, Holland & Hannen and Cubitts Ltd.

● Colonel H. Delacombe, O.B.E., has retired from the board of directors of Jablo Plastics Industries Ltd., because of ill health. Mr. W. Dunn has been elected to succeed him.

*In the cold-conditioning room of the new block recently constructed for Watney, Combe Reid & Co. Ltd., at their Mortlake Brewery, non-inflammable Cobex (rigid vinyl), made by BX Plastics Ltd., has been used for walling in each end of the 240-barrel horizontal tanks. The Cobex is unaffected by refrigeration conditions, resistant to most chemicals, acids and alkalis, and can be hosed down. Consulting Engineers: Mark Jennings, Son & Partners*



● Glow-Worm Boilers Ltd. have changed the name of their Rosi-Fyre high output back boiler set and continuous burning fire. It will in future be known as the "Glowbrite".

● This year's Corrosion Exhibition is to be held at the Royal Horticultural Society's new hall at Westminster, from April 27 to 30. Over 70 firms will exhibit their products. The opening ceremony will be performed on Monday, April 27, by Sir Owen Wansbrough-Jones, K.B.E., C.B., the chief scientist of the Ministry of Supply.

● At the council meeting of the English Joinery Manufacturers' Association, held on December 10, 1958, consideration was given to the following matters among others: architects' specification for hardwood joinery, sample shipment of Swedish Redwood, C.E.I.-Bois and European Joinery Federation State control of industry, and modular co-ordination in building.

● Henry Wilson & Co. Ltd., engineers of Kirkby, Liverpool, are to increase their factory space to more than double its present size. The company has acquired the lease on a factory adjoining its present Cornhill Works. Their Oilheat Division, which manufactures oil-fired pressure-jet and vapourising boilers, burners for conversion and warm-air conditioning units, is expected to be transferred to the additional premises by July.

● Mr. W. Wanstell has been appointed sales and technical service representative by Chloride Batteries Ltd., to cover the territories of East and West Africa.

● Owing to greatly increased production, the price of Bulgomme Silence cellular-based rubber flooring has been reduced by 10 per cent in Great Britain. Samples of this material, together with new prices will be supplied on request by Mr. B. J. Arnall, of 13 Montpelier Road, London, W.5, the United Kingdom commercial manager for Messrs. Pennel & Flipo, of Roubaix.

● Crompton Parkinson Ltd. have introduced completely new home trading terms for users, contractors and resellers of their lighting fittings and control gear. Full details are available on application to any Crompton Parkinson branch.

● Philplug Tuncarb drills, Screwfix and all other fixing devices, as well as the cold caulking compounds, P.C.3 and P.C.4, are now being marketed by Expandite Ltd., of Chase Road, London, N.W.10, and Secomatic Ltd., of Western Road, Bracknell, Berks.

● Non-inflammable Cobex (rigid vinyl), manufactured by BX Plastics Ltd., is now being used in a South-East London hospital for protecting cement, plaster and tiled corners. Previously, considerable damage has been caused to the corners of corridors, wards and kitchens by the vast amount of trolley carrying which takes place.

● Decoplast laminated plastic, manufactured by Holoplast Ltd., is used in the new Uniflex bedroom range, designed by Peter Heywood. It has been used on the continental headboard-to-face cupboards which let down to make bedside tables. Decoplast is also used to face the vertical surfaces of all the counters in the redecorated record department of Selfridges Stores in London's West End.

● Gerland Ltd., with registered offices at 130 Mount Street, Berkeley Square, London, W.1, has recently been incorporated and will market Gerflex plastics floor coverings in Great Britain. Mr. Percy Harris, formerly managing director of Lafarge Aluminous Cement Co. Ltd., is the managing director of Gerland Ltd.

### ADDENDUM

The telephone number of Sun-X (Great Britain) Ltd., of 3a Wood Street, London, E.C.2, is Monarch 8709. This information was omitted from their advertisement which appeared on page 26 of our issue of January 28, 1959.

## NEW PRODUCTS

*In this feature are reviewed new lines introduced to the building industry for the first time and additions or improvements to existing ones. Any advantages claimed for a product are from information supplied by the manufacturer*

### Electric Convector Heaters (1)

The new Ekco Thermovent WM series of wall-mounting, steel-cased electric convector heaters has been introduced to replace the previous MRL series. The new models have a smaller projection from the wall, i.e., 5½in, and are easier to install than the MRL heaters. The two basic sizes of the WM series are 1kW and 2½kW. The smaller size measures 17½in wide by 22½in high and can be obtained either with or without automatic heat control. The larger size measures 26½in wide by 22½in high and is made either with automatic heat control or a half-heat switch. Alternative loadings of 750W and 1,250W for the smaller size and 1½kW for the larger heater will be available to order. All models are finished in hammer-bronze enamel and close-spaced wire guards are concealed behind the inlet and outlet grilles. A standard 40W amber-sprayed lamp provides a warm luminous effect. Installation and wiring are simplified by releasing two concealed screws which enable the case to be detached. Prices: WM1 (1kW) £10 12s 11d; WMCI (1kW automatic) £12 0s 4d; WM25 (2½kW half-heat switch) £12 15s 6d; WM25 (2½kW automatic) £13 18s.

*Readers' Information Service, Ref. 1. Date 4/2/59.*

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### New Floor Seal

Glitsa Matt floor treatment finish, a special development of Glitsa Gold Seal, is now being produced in this country. It is a hard-wearing finish and is intended for particular applications where a long-lasting, non-reflecting finish is required on good quality hardwood floors and wall panelling. Glitsa Matt is a self-curing plastic treatment and the addition of a hardener or catalyst is not required. A clear finish is provided which does not discolour the wood. The product



1

is applied by brush and two coats are recommended with very light sanding by hand after the first coat is dry. Normal drying time is two hours. Coverage per gallon is 30/40 sq yd on hardwood, providing for two coats. It is claimed that Glitsa Matt is non-slip, acts as a seal against dirt, grease, ink and water, is heat-resistant, and not affected by alcohol, detergents or dilute acids. Re-sanding of floors is not necessary if worn patches are re-treated before the Glitsa film is worn through. It is available in 1gall cans at a cost of 49s.

*Readers' Information Service, Ref. 2. Date 4/2/59.*

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### Mosaic Hardwood Flooring Range Increased

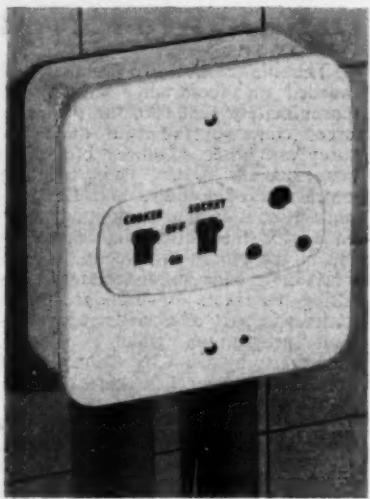
New woods and a new pattern have been added to the Marley range of mosaic hardwood flooring. This prefabricated parquet type of flooring was originally launched in Idigbo and Yugoslavian oak but is now available in sapele, other types of oak, and panels primarily of sapele but with an admixture of light-coloured ramin to give a strongly contrasting regular pattern. In addition, the company will shortly introduce a herring-bone pattern as an alternative to the normal basket-weave. This is laid in the same way, except that the edges of each 18in panel will interlock a little with the adjoining panels on all sides.

*Readers' Information Service, Ref. 3. Date 4/2/59.*

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### Cooker Control Units (4)

Units of the new Cambridge a.c. range of electric cooker controls are available for 13A or 15A circuits (B.S.S. 1833 and B.S.S. 438), in flush or surface versions and with or without pilot lights. Though officially rated at 30A, the Cambridge units can take up to 45A continuously on the cooker circuit, in addition to supplying the socket outlet. Housings are of zinc-coated steel, finished in cream stove enamel. The front plate of the flush unit is adjustable to ensure correct mounting. All insulating materials are anti-track and all steel parts are rust-proofed. Angular and height adjustment is provided to improve the accuracy of fitting, and the chassis of the surface unit cannot be mounted out of alignment. The box has five 1in knock-outs, two each at top and bottom, and one at the rear. Knock-outs below enable the surface units to be mounted direct to a recessed B.S. 1299/1363 box or to a B.S. 31 small conduit box which has 2BA screws at 2in centres. The neon pilot



4

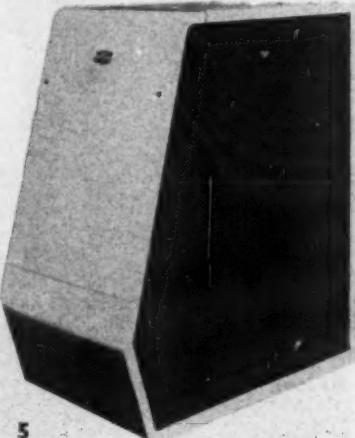
lamps can be replaced without removing the cover plate. Terminals will accommodate cables up to 7/064in. In the 15A unit, a replaceable cartridge fuse to B.S. 1361 is held in a fuse carrier. An earth terminal is fitted to the socket outlet to take a fly lead if required. Illustration is of a 15A surface-type control unit. Prices, including plugs, are: 13A 28s, 15A 31s 8d. Pilot light versions are 10s extra.

*Readers' Information Service, Ref. 4. Date 4/2/59.*

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### New Casings for Oil-fired Boilers (5)

Oilheat pressure-jet oil-fired boiler units, ranging from 80,000 to 808,000 B.Th.U. outputs, are now being supplied with a new streamlined casing which has been developed by Richard Hews, of the Liverpool School of Architecture, in co-operation with the C.O.I.D. The casings are made from pressed steel and are designed to reduce cost and time of installation, and to prevent damage during transit. The casing is built in sections and the front portion can easily be removed



5

for maintenance work. The casing shown in our illustration is for the 80,000, 118,000 and 160,000 B.Th.U. models, but a more rectangular pattern is provided for the larger units.

Readers' Information Service, Ref. 5. Date 4/2/59.

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#### Plastic Linen Bin and Stool (6)

A new dual-purpose linen bin and stool has been added to the Ekco Gold Seal range of domestic ware. The new item has a large capacity body made from satin-finished, laminated, resin-bonded birch. The seat top is available either with or without a cork inlay, and is made from black or white plastic. Dimensions: 17½in high by 12in dia. at top. Prices: with domed top—47s 6d (black) and 55s (white); with cork top—46s (black) and 52s 6d (white).

Readers' Information Service, Ref. 6. Date 4/2/59.

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#### Radiant Panel Heater (7)

Two new high temperature radiant panel heaters with loadings of 750 and 1,500W, and of similar design, have recently been introduced by this company. The panels are designed for suspension on chains or conduits and average fixing heights are between 10ft and 12ft. Heat is radiated at a temperature between 450 and 500 deg F from a steel face plate, finished in cream vitreous enamel, and a mica insulated nickel chrome ribbon-type heating element, occupying almost the same surface area as the face plate, is sandwiched between the back of the plate and a layer of special high temperature insulation, which keeps back losses to a minimum. The insulation and element are shrouded by a metal back plate which incorporates a terminal box. Connections to the supply are made in the terminal box which provides for entry by ½in conduit or

bushed flexible, and includes an earth terminal. Panels are available for operation on the following voltages: 200/220, 230/250, A.C. or D.C., but other voltages can be supplied to special order. The 750W model measures 12½in by 12½in by 1½in, and weighs 7½lb. The 1,500W model measures 12½in by 24½in by 1½in and weighs 15½lb. Respective prices are 5gn and £8. Three different types of suspension bracket are obtainable: horizontal, twin 30 deg from vertical, and twin 45 deg from vertical. Respective prices per pair are 9s, £1 14s 6d and £1 14s 6d.

Readers' Information Service, Ref. 7. Date 4/2/59.

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#### Steel Angle Accessories (8)

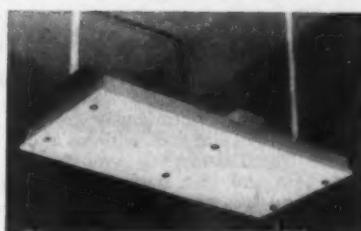
Two new steel shelves have been added to the Handy Angle range of products. These shelves, which are 2ft wide and either 18in or 24in deep, will add to the adaptability of Handy Angle for racking purposes. With the new shelves it is now possible to design racks in units of 2, 3, 4, 5 or 6ft and upwards, where before it was only possible to build to units of 3ft. The new shelves are made from 20 s.w.g. cold rolled steel, with edges double flat folded, and they bolt direct to the slotted angle upright. They have a distributed load carrying capacity of 1,500lb approx., and are finished as standard in satin bronze colour. Price: single shelves 18in and 24in deep, respectively, cost 14s 6d and 16s 6d. In packets of six, the prices are £4 7s and £4 19s, including a supply of nuts, bolts, washers and anchor plates.

Readers' Information Service, Ref. 8. Date 4/2/59.

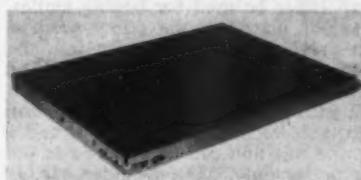
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#### New Aluminium Sheet (9)

Noralduct is a new solid aluminium sheet which has internal systems of passages and ducts. It is particularly suitable for heat transfer equipment and, as the integral passages can follow almost any complex continuous pattern that can be drawn on paper, there are many other possible applications. It is already used for refrigerator evaporator plates, oil coolers, radio chassis coolers and domestic heating panels. Other possible uses include car radiators, milk and food coolers, electronic equipment coolers, dehumidifiers, solar heaters, air conditioners, transformer coolers, condensers, petrol tanks and design-stiffened sheets. Sheets of Noralduct can be formed after manufacture as, for example, are those used in refrigerator evaporator components. Either a plain or an impressed pattern finish is available and colour can be included in the product design as there are no welds to spoil the appearance of an anodized finish. Noralduct is made by superimposing a sheet of Noral alloy, normally Noral 2S (B.S.



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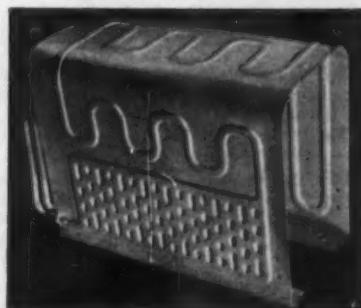
1470 SIC), on another sheet on which a fore-shortened impression of the required tubing pattern has been printed, by a silk-screen process, in a special stop-weld ink, and then pressing these sheets through a rolling mill. The high pressure exerted causes the aluminium to unite in all areas except those that have been inked. Rolling is continued until the final gauge and size have been obtained and the sheet is then held between rigid plain platens and the printed areas are hydraulically inflated, becoming ducts and chambers in solid sheet. Types produced are: (a) standard, (b) flat one side, (c) flat both sides. Panel thicknesses are: (a) 0.060 to 0.080in; (b) 0.060 to 0.100in; (c) 0.090 to 0.125in. Maximum panel sizes are: (a) 30in by 84in; (b) 22in by 72in; (c) 10½in by 40in. Maximum pattern sizes are: (a) 28in by 78in; (b) 20in by 66in; (c) 10in by 40in. Illustration shows a refrigerator evaporator plate made from Noralduct.

Readers' Information Service, Ref. 9. Date 4/2/59.

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#### Continuous Burning Open Fire

The latest addition to this company's range of solid fuel burning appliances is the Leander Mk. II continuous burning open fire. It has been specially designed for use in smokeless zones and approved by the Ministry of Power and the Gas Council, be-



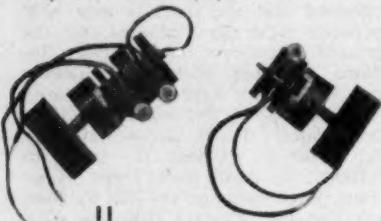
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## NEW PRODUCTS (continued)

sides complying with B.S. 2845. The fire will burn continuously for ten hours on any solid fuel, without attention. The Leander is available in 14in, 16in and 18in sizes and can be easily and quickly fitted to existing tiled surrounds. A special feature of the new fire is a two-way trivet which can either be used for boiling kettles, etc., or placed in the safety position to prevent sparks flying out into the room. Fire control is by means of the ashpit door and gas ignition can be fitted to either side. A self-fixing portable version of the Mark II and a boiler flue unit can be obtained in the 16in size only. The Leander Mk. II is finished in vitreous enamel in the following colours—copper lustre, tortoiseshell lustre, black lustre, cream and fawn, two-tone fawn and two-tone russet. Prices: from £3 17s 6d to £5 9s, according to size and finish (two-way trivet, extra). Boiler Flue unit with fire and side bricks, from £7 17s 3d to £8 19s. Self-fixing 16in fire, from £4 5s 6d to £5 5s 6d.

Readers' Information Service, Ref. 10. Date 4/2/59.



New Adjustable Diffuser  
(12)

A new range of resilient sparkless switches has been produced for use in situations where the atmosphere is polluted and fire and explosion risks are present. The switches, which use no springs at all, consist of a mercury tube mounted on an insulated carrier which is held on a spindle bonded in rubber to an anchor ring. A plate is fitted to this ring and it determines the function of the switch to provide either a latching effect (when used as lighting switches or other applications where a positive "on" position is required) or non-latching when used to replace a push-button control for remote operation. On the latching type, a locking pin engages with a groove to maintain the switch in a closed position. When pressure is applied to the knob, the switch will immediately return to the "off" or "open" position. The locking pin provides the earth contact. These switches can be supplied in dust-proof enclosures with shields and engraved plates. Standard assemblies are available for one- to four-gang units and can be fitted with any combination of one to four sub-assemblies. The mercury switches are suitable for 8A

starting-current and 1A running current on 440V supplies. When used on 250V supplies they are rated at a maximum of 15A. The company makes these switches under licence from I.C.I. Ltd. and illustration shows: (left) double-pole latching type and (right) single-pole non-latching type.

Readers' Information Service, Ref. 11. Date 4/2/59.

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### New Adjustable Diffuser (12)

The Neos adjustable diffuser is a completely flush-fitting unit designed for warm-air heating systems and ventilation. It is of anodized aluminium construction and the face of the diffuser embodies a series of frustro-conical rings and concentric with these, annular rings mounted in register. A control screw at the centre of the diffuser is turned by means of a coin slot and this action gives axial movement to the annular rings. This controls the air flow between the two types of rings. Complete shut-off is achieved when the annular rings seat on the faces of the frustro-conical rings. It is claimed that the air stream maintains a forward directional movement up to the instant of complete shut-off and that the incidence of turbulence is reduced to an absolute minimum. When Neos diffusers are used in different locations in a plenum system, they can be set and locked to give accurately-balanced heating and ventilation in all rooms. The unit measures 2in from front to back and has a diameter of 8in at the front. At the rear, it will fit into a 5in bore ducting. A circular fairing is available for use with exposed ducting and special fittings can be supplied for non-circular ducting. It can be fitted in all positions from skirting to ceiling and is suitable for use in hospitals, schools, public buildings, offices and industrial premises. The Neos is available in a range of six colour finishes.

Readers' Information Service, Ref. 12. Date 4/12/59.

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### New Road Gritter (13)

A new road gritter is now being produced which is a completely self-contained unit designed for attachment to any normal tipping lorry. This low cost equipment can be quickly and easily fitted to the lorries and is especially suitable for use during icy weather conditions. A 1 h.p. Villiers air-cooled petrol engine is incorporated which, through the medium of a chain drive to a bevel gearbox, actuates twin-plate spinners operating at a speed of up to 700 r.p.m. The engine speed, which governs a centrifugal clutch, is remotely controlled from within the drivers cabin, so that spreading operations can be applied as required, whether the machine is travelling or stationary. A hand-operated gate con-



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trol can be set to provide fine or heavy spread. The unit is fitted with a stout metal cowling to prevent grit being thrown out above spinner height, and will spread a thick carpet of up to 18ft. As soon as de-icing operations have been completed, the gritter can be speedily removed so as to leave the tipping lorry free for normal duty.

Readers' Information Service, Ref. 13. Date 4/2/59.

★

### New Strong Hardboard

This company is now producing a 1-in thick hardboard which is stated to possess great structural strength and load-bearing properties. The new board is suitable for shelving, heavy-duty partitioning, sliding doors and as a cheap and easy flooring material for lofts. Other uses include bath panels, concrete form lining, sheeting of outbuildings and sheeting under copper and other roof covers. In the furniture industry it can be used for small table tops and as a backing for wardrobes or kitchen fitments. When fixed at 24-in centres, it is claimed to be as strong as the studding behind it and at the usual hardboard centres of 12in and 16in it has a respective breaking load of 460lb and 320lb. The hardboard is made in both standard and oil-tempered grades and is available in 2ft widths by 4ft, 6ft or 9ft long and 2ft 6in widths by 8ft long as well as the standard 8ft by 5ft, 6ft by 4ft and 9ft by 4ft sheets. The weight is approximately 1lb 6½oz per sq ft and retail costs can be as low as 8½d per sq ft for the standard grade and 11d per sq ft for the oil-tempered grade.

Readers' Information Service, Ref. 14. Date 4/2/59.



13

# CURRENT MARKET PRICES (LONDON)

These prices apply to material purchased in the quantities named or otherwise as might be expected for a new building of moderate size. They include delivery and are the material basis used in the build-up of "Measured Rates" and subject to the conditions heading that schedule. Prices are under careful constant review but should be confirmed.

## AGGREGATES AND SAND

1½in—all in—ballast	27/-	Yard cube
2in do. do.	28/6	delivered
2in screened shingle	23/9	(in five-yard
2in do. do.	24/6	loads or
2in granite chippings	54/6	more)
Sharp washed sand	28/-	
Pit sand	25/-	
Building sand	23/9	
Broken brick	21/-	
1½in shingle	22/-	
Cartage of muck	10/-	

## BUILDING MATERIALS AS DESCRIBED, CENTRAL LONDON

CEMENTS packed in paper bags	Per ton
Portland in 6ton lots	112/-
Do., from 1ton to 5ton 19cwt do.	124/-
Do., Rapid hardening (6ton lots)	122/6
Do. (but 1ton to 5ton 19cwt)	134/6
Cement "Aquadcrete" (do.)	156/6
Do., "417" or "Polar" (do.)	156/6
Do., "White" 1ton (lots)	277/6

## LIME—

Hydrated .. including ..	134/6 (1ton loads) deliv'd
White .. Bags ..	132/- (2/3 do.) do.

## PLASTER—

Keenes, coarse, pink ..	234/- ton
Do. do. white ..	239/- do.
Sirapite, do. ..	175/- do.
Do. finish ..	183/3 do.
Hardwall, do. ..	174/- do.
Plaster, coarse, pink ..	164/6 do.
Do. do. white ..	174/- do.
2in Gypsum Plaster Lath ex works (600sq yds)	2/5 sq yd.
2in Do. do. Wallboard ..	2/8 do.
3½in Jute scrim (100yd roll) ..	9/4 each
Cow hair (under 3cwt) ..	109/- cwt

## FIRECLAY—

Stourbridge, loose (1ton lots)	196/9 ton delivered
Fire cement ..	12/3 14lb

## BRICKS

BACKING BRICKS (in truck loads)—	
Flettons ..	118/- per 1,000 delivered
Do. Keyed ..	120/- do.
Do. bullnose ..	152/6 do.
Blue wirecuts (Net) ..	542/- do.
White ..	202/- do.
Southwater engineering (Class A)	400/6 do.
Firebricks—2½in ..	92/9 per 100 delivered
Do. —3in ..	111/3 do.

## STOCK BRICKS—

Mild stocks ..	109/- per 1,000 at Works
Second, do. ..	268/6 do.
First, do. ..	294/6 do.

Add for delivery—approx. 55/- per 1,000 in lorry loads.

## FACINGS (ex truck or lorry)—

Rustics ..	150/- per 1,000 delivered
White ..	220/- do.
Blue pressed, 2½in (Net) ..	604/- do.
Do. bullnose ..	618/- do.
Reds (Multi sand faced) ..	370/- do.
White glazed stretchers ..	1696/- do.
Do. headers ..	1670/- do.
Do. bullnose ..	2120/- do.
Do. double stretchers ..	2053/- do.
Do. double headers ..	2173/- do.
Breeze fixing bricks ..	30/3 per 100
Fire tile and lumps ..	40/- ft cube
Wall ties—8in by 2in by ½in, galvanised ..	83/9 per cwt
Cement mortar (1 : 3) hand-made ..	93/6 yd cube

## BRICKLAYERS' SUNDRIES

AIR BRICKS	9 by 3in	9 by 6in	9 by 9in	12 by 9in
Iron .. each	2/5	3/11	5/10	7/10
Galvanized do. do.	4/1	6/9	10/2	13/7
Terra Cotta .. do.	1/2	2/4	5/7	11/1
Chimney pots, Terra Cotta (11 to 24) do.	1ft	2ft	3ft	4ft
	8/7	14/11	34/1	58/11

4 February 1959

## PARTITIONS—

18in by 9in Blocks keyed for plastering	2in	2½in	3in
Per yd super in 6ton lots ..	3/9	4/4	5/3
In solid clinker including any half blocks ..	3/11	4/7	5/3
In cellular clinker blocks ..	4/5	4/8	5/5
In hollow clay blocks ..	6/-	6/11	8/4
Clinker blocks in small quantity ..	6/-	6/11	8/4
Intermediate quantities in all types may be had at intermediate prices.			
Smooth in lieu of keyed faces extra cost per side 3d per yd super			

## SINKS—

Fireclay white glazed in and out—standard quality	24 by 18in	30 by 18in	30 by 20in
London pattern, no overflow, 6in deep ..	69/6	86/6	96/-
Belfast, plain edge, 10in deep ..	82/6	137/6	185/6

## FLUE, LININGS, PLAIN, CIRCULAR (FIRECLAY)—

	Foot lineal	Each
	Straight	Bends
9in diameter ..	4/8	14/-
10in do. ..	5/8	17/-
12in do. ..	10/9	32/9
9in diameter, beaded end, 12in high ..		6/3

## FLUE PIPES AND FITTINGS—

	4in	5in	6in
Heavy asbestos type, 6ft length ..	18/6	25/6	32/6
Do. 3ft length ..	9/3	12/9	16/3
Do. bends ..	7/2	9/-	10/8
Light asbestos type, 6ft lengths ..	16/-	20/-	25/6
Do. 3ft length ..	8/-	10/-	12/9
Bends ..	5/7	7/1	8/8
Baffler ..	15/5	18/4	19/4

## DRAINAGE GOODS

### GLAZED STONEWARE STANDARD LIST (NOV., 1956)

	4in	6in	9in
ORDINARY TYPE—Each			
Pipes in 2ft lengths ..	3/4	5/-	9/-
Bends ..	5/-	7/6	20/3
Junctions (4in on 4in, 6in on 6in, 9in on 9in) ..	8/4	12/6	27/-
Gullies with 4in outlets ..	12/6	13/9	22/6
4in horizontal inlets ..	4/-	4/-	4/-
4in vertical do. ..	6/-	6/-	6/-
Black iron grids ..	1/6	2/10	5/6

Adjustment to Current Cost	2ton lots	Less than 2ton lots
2in to 9in diameter ..	50 pieces	Under
"Best" pipes and fittings ..	or more	50 pieces
Percentages to add ..	—22 ½ %	—28 ½ %
Further percentages to be independently added in respect of:		NET
British Standard pipes, etc., 10. "Best" Tested pipes, 37½		
British Standard Tested, 47½.		
IRON DRAINAGE GOODS—		
Each	4in	6in
Cast iron pipes, 9ft long ..	84/6	123/9
Do. 6ft do. ..	60/4	92/10
Do. 4ft do. ..	46/1	71/2
Do. 2ft do. ..	28/-	42/2
Short bend ..	19/-	50/7
Junction ..	33/8	70/6

## CURRENT MARKET PRICES (Continued)

## DRAINAGE GOODS—Continued

GULLEY PARTS—		4in	6in	
Traps, high level, invert	..	33/8	91/4	each
Inlet, bellmouth pattern	..	17/8	35/7	do.
Do. with one vertical branch	..	31/—	58/2	do.
Do. with two do.	..	84/—	122/3	do.
Extra for sealed cover	..	10/8	13/10	do.

## RAINWATER SHOES—

		4in	6in	
With vertical inlet and rebated top	..	44/1	87/9	each
Extension piece	..	19/4	23/3	do.
Flat loose coated grating	..	4/7	4/7	do.
Loose solid coated cover	..	6/2	6/2	do.

## MANHOLE CHANNELS, WHITE GLAZED—

		4in	6in	9in
Straight, 2ft long	..	16/6	24/2	40/9
Taper, do.	..	27/6	27/6	41/9
Bends, main, half section	..	32/—	46/3	76/—
Do., branch, do.	..	19/10	27/6	—
Do., do. three quarters, do.	..	27/6	44/—	—
Junctions, single	..	26/5	46/3	—
Do., double	..	36/3	62/9	—

## BROWN GLAZED CHANNELS—

Based on standard list (less than 100 pieces)

		4in	6in	9in
Half-round main channel (2ft long)	..	2/84	4/—	7/4
Extra for step ends	..	2/84	4/—	7/4
Extra for outlets	..	5/44	8/—	—
Channel bends with splayed ends	..	8/—	12/11	—
Three-quarter section do.	..	10/9	16/11	—

## MANHOLE COVERS—

		Black
24 by 18in foot traffic	..	29/3 each
Do. Strong do.	..	53/9 do.
Do. Light car traffic	..	95/3 do.
Do. Road traffic	..	119/3 do.

## SUNDRIES—

		Galvanized
Manhole steps	..	9/3 each
4in Mica valve fresh air inlets	..	16/— do.
Plumber's hemp	..	9/— per lb
Gaskin, caulking	..	1/5/— do.
Canvas backed hair felt, 4in wide	..	9d per ft run

## ROOFING MATERIALS

## WELSH SLATES (delivered)—

Sizes in inches		Quantity			
		Full Loads	500 to 599	1 to 49	per doz
22 by 11	..	2246/—	265/—	39/—	
20 by 10	..	2021/6	237/6	35/—	
18 by 10	..	1413/—	164/6	24/3	
16 by 10	..	1120/—	131/—	19/3	
14 by 9	Damp Course	668/—	70/9	10/6	
14 by 4½	..	328/—	31/—	4/9	

## TILES (Brosley and Staffordshire)—

		per 1,000	per 100	
10½in by 6in Machine made, 6 ton lots	..	302/6	44/9	
Do., hand made, sand faced (Berks)	..	315/—	50/—	
Hips, valleys and angles	..	36/3 per dozen		
Plain concrete tiles	..	210/6	25/6	

## Sheeting asbestos corrugated, 6in pitch

4½in by 16 gauge, drive screws (galvanized)	..	8/34 yd super
7½in by ½in hook bolts and nuts (do.)	..	57/9 do.
Washers, round, flat galvanized	..	4/3 do.
Do. do. bituminous	..	2/— do.

## ROOFING FELT—

Sanded bitumen felt (44lb)	..	1/1 yd super
Do., but 60lb in weight	..	1/7 do.
Inodorous felt, best quality	..	2/11 do.
Do., second quality	..	2/3 do.
Underlining	..	1/8 do.
Sheathing	..	1/8 do.
Galvanized felting nails	..	2/4 lb

## THERMAL INSULATION—

1in Insulating Gypsum Baseboard (600sq yds)	..	3/- sq yd
1in Do. Do. Lath	..	3/- do.
1in Do. Do. Wallboard	..	3/3 do.
1in Asbestos (Fully-compressed) Sheet Cork Slabs	..	8/4 do.
1in Insulating Silicate Cotton (2ton lots)	..	7/6 do.
		1/6 ft cube

## STONE

PER FOOT CUBE in random blocks not exceeding 20ft cube in each, free on rail London.	
Monks Park 9/7	St. Aldhelm 10/10
Portland brown Whitbed 9/2	Doubling 10/2 Beer 9/-

## TIMBER

Softwood—sawn—random lengths.	Per standard	Per cubic ft
Carcassing quality	£105	12/8
Joinery quality	£125 and up	13/4
Plain edged unsorting flooring	1in 1in	1½in 1½in
per square	90/- 110/-	138/- 165/-
1in Hardboard 5/8 sq yd.		
Larger quantities cost less, and smaller quantities more.		

## SUNDRIES—

	Dia.	3in	6in	9in
Black hexagon bolts, nuts and washers. Each	1in	10d	1/2	1/5
	1in	1/3	1/8	2/1
	1in	1/9	2/4	3/—
Sashline, hemp, good quality	No. 6	No. 8	No. 10	
Per yd Run	10d	1/1½	1/5	
Floor brads			84/3 per cwt	
Cut Clasp Nails			85/6 per cwt	
Steel ordinary screws	1in No. 8	2in No. 8	6/3	per gross
Brass, do.	9/5	Do.	16/7	

## HARDWOOD. Normal joinery quality.

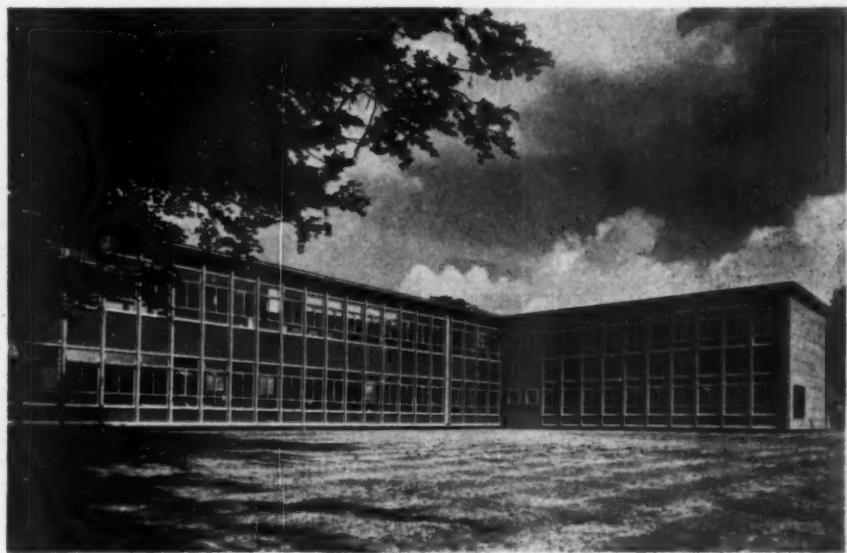
	Square edge		Per ft cube
Mahogany, African	..	..	30/-
do. Honduras	..	..	66/-
Teak, Burma and Siam	..	..	78/-
Walnut, Australian	..	..	84/-
Oak, English	Sawn Logs	..	42/-
do. Yugoslavian	..	..	47/6
Walnut, African	..	..	25/-

## BUILDING BOARDS

Description	Rate	Unit
16mm Birch blockboard	202/-	Per 100ft
22mm do. do.	242/-	super,
Austrian Mahogany faced one side, blockboard 18mm thick	348/-	but
Austrian figured Oak faced one side, blockboard 19mm thick	407/-	from one board
Beech, 6mm plywood	108/-	
Birch, do. do.	83/-	
Do. 9mm do.	120/-	up to
Teak faced one side, plywood 6mm thick	374/-	a
Austrian figured Oak one side, 6mm	229/-	
Australian do. Walnut do. do. ½in	212/-	bundle

## IRONMONGERY

	2in	3in	4in	5in	6in
	1/3½	2/3	3/5	6/5	9/2
Cast iron Butts, per pair	—	8/3	12/9	16/9	22/3
Hinges, spring, single action regulating, jarnanned, each	—	8/3	12/9	16/9	22/3
Do. but double action spring only, each	—	17/6	22/3	28/—	35/9
Do. blank only, each	—	10/3	14/—	21/—	24/3



THE BUTTERLEY CO. LTD, NEAR DERBY  
*G. Alan Burnett, A.R.I.B.A., A.M.I.Struct.E., Dip. Arch. (Leeds), Chartered Arch. & Surveyor*

# HOPE'S WINDOW WALL

*with pressed metal framework*

**HENRY HOPE & SONS LTD**

*Smethwick, Birmingham & 17 Berners Street, London, W.1*

*Local Office: Provincial House, Albion Street, Leeds, 1*

MEMBER OF THE METAL



WINDOW ASSOCIATION

When specifying **NATURAL ROCK MASTIC**

**Certificate of Origin**  
of  
**NATURAL ROCK  
MASTIC ASPHALTE**

This Certificate is issued to \_\_\_\_\_  
of \_\_\_\_\_  
in respect of (\_\_\_\_\_) of **NATURAL ROCK MASTIC  
ASPHALTE** purchased from us by the \_\_\_\_\_ mentioned for use at \_\_\_\_\_  
Rock asphalte has been imported by us from \_\_\_\_\_  
(an) asphalte mine(s) and  
conforms to the requirements of British Standards.

**ROCK MASTIC ASPHALTE** has been manufactured from this (these) rock(s) in a Works inspected by the British Standards Institution to ensure that the production of mastic asphalte complies with British Standards, and all blocks of this mastic asphalte will accordingly be marked with the following:

(a) The B.S.I.'s 'Kite' brand certification mark   
(b) The B.S. No. (e.g. 1000, 1010 or 1020)  
(c) The manufacturer's trade-mark.

For and on behalf of \_\_\_\_\_  
Date \_\_\_\_\_

\* Attention is invited to particulars of approximate covering capacities given overleaf

THE TERMS OF THIS CERTIFICATE OF ORIGIN  
HAVE BEEN APPROVED BY THE BRITISH STANDARDS INSTITUTION  
AND BY THE NATURAL ASPHALTE MINE-OWNERS AND MANUFACTURERS COUNCIL

B.S.C.

*insist upon a CERTIFICATE OF ORIGIN*

OF THE ROCK asphalte to be used in the manufacture of mastic asphalte.

The terms of the certificate have been approved by the British Standards Institution and by the Natural Asphalte Mineowners and Manufacturers Council, and is issued by the rock mastic asphalte manufacturing members of the Council.



*Specimens of the certificate and technical literature are available from*

**THE NATURAL ASPHALTE MINEOWNERS  
& MANUFACTURERS COUNCIL**

94-98 PETTY FRANCE,  
LONDON S.W.1.  
TEL. ABBEY 1010.

## CURRENT MARKET PRICES (Continued)

IRONMONGERY—Continued						
	12in	18in	24in	30in	36in	
Tee hinges (japanned) per pair	2/-	3/10	—	—	—	
Do., but stronger, per pair	3/4	6/1	8/3	—	—	
Hook and Ride hinges, per pair	—	—	13/4	16/3	24/10	
BOLTS—each—	3in	4in	6in	8in	10in	12in
Cabinet, barrel, straight or necked	1/6	1/8	2/3	—	—	—
Square spring, with brass knob	1/4	1/6	1/11	—	—	—
Tower bolts	—	1/10	2/8	3/6	4/5	5/2
Barrel bolts	—	2/9	4/-	5/2	6/8	8/1
Add to Tower or Barrel bolts if necked	1d	1d	1d	1d	1d	1d
LOCKS—each—						
Rim lock, 2 lever, wrote case, brass bolt and bushing	12/9	Brass furniture	5/-			
		or Bakelite do.	3/3			
		Bakelite finger-plates	2/8			
Mortice lock, 2 lever, bushed	12/9	Brass furniture	8/9			
		or Bakelite do.	3/10			
Cylinder latches, japanned case	—	—	16/-			
Brass sash fastener	—	—	each	5/-		
Casement fasteners (malleable)	—	—	do.	1/6		
Do. stays (do.)	—	—	do.	2/-		
Axle pulleys (brass face, iron wheel) 1½in	—	—	do.	3/8		
Do. as last, but with brass wheel 1½in	—	—	do.	6/3		
Sash line, No. 8 Anchor, yellow label	—	—	per yard	1/-		

METAL GOODS						
British rolled steel joists ex mills to basis sections on site (6in by 5in, 8in by 5in or 6in, and 10in or 12in by 6in) ...						
Extra cost over basis for following sections—						
9in or 18in by 7in, 14in by 5½in, 15in by 5in, 14in or 15in or 16in or 18in by 6in, 20in by 6½in, 20in by 7½in, 10in or 12in or 14in or 18in by 8in						
5in by 4½in, 7in by 3½in, 13in by 5in	10/-	per ton	15/-	do.		
12in by 5in, 22in by 7in	20/-	do.				
6in by 4½in, 7in or 8in or 9in by 4in, 10in by 5in	25/-	do.				
4in by 3in, 10in by 4½in	30/-	do.				
5in by 2½in, 5in by 3in	35/-	do.				
6in by 3in, 24in by 7½in	40/-	do.				
3in by 3in	50/-	do.				
4½in by 1½in	65/-	do.				
3in by 1½in, 4in by 1½in	70/-	do.				
1in mild steel reinforcing rods ex mill d/d	£41/9/0	do.				
Extras per ton						
½in or 1in diameter in size	15/-	per ton	30/-	do.		
1in	62/6	do.	92/6	do.		
1½in	132/6	do.	172/6	do.		
2½in						
Extras for length						
5ft to 3ft	7/6	do.				
3ft to 2ft	15/-	do.				
2ft	22/6	do.				
40ft to 45ft	15/-	do.				
45ft to 50ft	22/5	do.				
Bolt and Nuts	112/-	per cwt				
Trench covering, including trays 1½in deep and rebated frames, 9in wide	25/-	foot run				
Do., but 12in wide	27/-	do.				
Do., but 14in wide	30/-	do.				
Do., but 18in wide	39/-	do.				

## METAL SUNDRIES

Cast iron pavement lights with 4in by 3in prism and convex lenses in alternate rows	per	33/-	ft super
Iron single fire doors, panelled both sides, pivot hung and self closing, to angle frame rebated and lagged, to meet fire regulations	54/-	do.	
24 gauge galvanized Tallboy 6ft high, 9in diameter with 9in by 12in base	55/-	each	

CHAIN LINK FENCING—						
In 25 yards lineal rolls inclusive of line wire.						
2in mesh	36	42	48	60	72	Height in inches—
10½in wire gauge	118/3	137/9	157/6	197/3	236/6	
12½in do.	82/3	96/-	109/9	137/3	164/6	
14½in do.	57/6	67/3	76/6	96/-	115/-	

DOUBLE SOOT DOORS AND FRAMES—						
Fitted with brass turn-buckle and cast key.						
	9in by 9in	12in by 9in	14in by 12in			
	21/6	31/3	54/-			

SLIDING DOORS, GATES AND PARTITIONS—						
Factory sliding doors in two leaves containing about 100sq ft with mild steel angle frames covered with 24 gauge corrugated galvanized sheeting and including hanging tubular track and gear complete						
	18/6	ft super				
Factory entrance gates with mild steel frames clad with 2in mesh chain link complete	16/6	do.				

STEEL ROOF LIGHTS—						
In Skylights and Lanterns, Standard type with puttyless glazing, lead flashings, and ½in rough cast glass; in the case of Lanterns 18in vertical sashed sides are provided in addition.						
Size at Base	6ft by 4ft	8ft by 6ft	10ft by 8ft			
Skylights	£35 5	£50 10	£69 10			
Lanterns	£55	£76 5	£110			

HIGH GRADE DOMESTIC BOILERS—						
Coke Fed. Performance 20 to 40 gallons raised from 40°F to 140°F per hour as under.						
TYPE						
20 gallons per hour						
15in wide, 23in high						
25 gallons per hour						
17in wide, 26in high						
40 Gallons per hour						
22in wide, 30in high						
Enamel finish	11	10	0			
Do. Grey Mottle	20	10	0			
Do. Cream Mottle	22	0	0			
Do. Cream Mottle	38	0	0			

GAS, WATER AND STEAM TUBES						
BASIC PRICES						
Internal	4in &	5in	6in	7in	8in	2in
Diameter—	½in	1in	1½in	2in	2½in	3in
Tubes per ft	9/4	10d	1/—	1/2	1/9	2/3
Bends each	1/7	1/9	2/—	2/6	3/8	5/5
Elbows, sq. do.	1/8	1/10	2/2	2/6	3/—	4/4
Do., round do.	1/10	2/—	2/4	2/10	3/4	5/8
Tees do.	2/—	2/2	2/6	3/2	3/8	5/—
Crosses do.	4/4	4/8	5/6	6/6	8/2	11/—
Backnuts do.	4d	4d	6d	7d	10d	1/—
Sockets do.	6d	6d	8d	10d	1/—	1/4
dimin. do.	8d	10d	1/—	1/2	1/6	2/8
						4/-

## EX. STOCK IN ORDERS OF £10 OR MORE

DISCOUNTS OFF BASIC LIST.						
TUBE—						
Black	Medium (Blue)	Medium (Red)	Galvanized	Medium	Heavy	Heavy
Black	—10%		Galvanized	—25%		
Heavy			Heavy	—2½%		

RAINWATER GOODS (Painted or Unpainted)						
In consignments of 5cwt and over						
From Standard List						
Pipe:	2in	3in	4in	5in	6in	
6ft lengths	each	12/10	14/5	18/11	24/8	31/6
3ft do.	do.	7/—	7/9	10/—	13/1	16/6
Shoe, ordinary	do.	2/7	3/10	5/7	9/5	12/11
Bend	do.	3/1	4/4	6/4	11/3	14/7
Branch, single	do.	4/6	6/7	9/3	14/7	22/6
Offset, 4½in	do.	3/9	5/3	7/9	12/11	17/—
Do. 9in	do.	4/11	6/6	9/8	15/3	19/3
H.R. gutter, 6ft length	do.	—	6/—	8/5	10/4	13/10
Angle or nozzle	do.	—	2/6	3/1	3/9	5/4
Stop end	do.	—	9d	1/1	1/6	1/9
				Above plus	21½%	

## CURRENT MARKET PRICES (Continued)

## PLASTERING MATERIALS

Sand, lime, cement and various plasters are previously included under those heads—	
Metal lathing (1in by 24G) (20 yards) ..	4/- sq yard
Plaster baseboard 1in (1,200 yards) ex works ..	2/4 do.
Lath nails, galvanized ..	1/11 lb
White glazed tiles (6in by 6in by 1in) ..	25/3sq yard
Do. rounded on one edge ..	30/6 do.
Do. on two adjoining edges ..	33/9 do.

## PLUMBER'S GOODS

4lb lead sheet (in 1-ton lots) ..	110/3 per cwt
Lead water pipe in coils (do.) ..	112/3 do.
Plumber's solder ..	3/6 lb
Copper tacks ..	6/- do.

## IRON SOIL AND WASTE PIPE. (5cwt lots and up)

each	2in	3in	3½in	4in
1in Medium pipe, 6ft length ..	14/6	17/2	19/3	21/11
Do., 4ft length ..	10/5	12/2	13/7	15/5
Bends ..	5/4	6/6	8/1	9/1
Do., with oval door ..	17/4	18/6	21/1	24/7
Junction, single ..	6/6	9/8	11/3	13/3
Do., with oval door ..	18/6	21/8	24/3	26/3
Swan necks, 4½in ..	6/6	10/3	11/9	13/9
Do., 9in ..	8/8	11/9	13/9	16/1
Holderbat, 2½in projection ..	5/9	5/11	6/3	6/4
				Above plus 22%

GALVANIZED CISTERNS, TANKS AND CYLINDERS—  
(Less than three)

## CISTERNS

	Nominal capacity			
Bends over tops and corner plates. Riveted or welded	100	150	200	300
14 gauge ..	150/-	218/-	274/-	387/-
12 gauge ..	182/-	270/-	319/-	429/-
1in plate ..	270/-	314/-	369/-	501/-

## HOT WATER TANKS

Riveted and with hand hole and ring ..	20	25	30	40
12 gauge ..	137/-	140/-	152/-	175/-
1in plate ..	153/-	156/-	171/-	195/-

## HOT WATER CYLINDERS—

Riveted, with handhole and ring ..	20	25	33	39
12 gauge ..	155/-	169/-	188/-	203/-
1in plate ..	167/-	185/-	207/-	222/-

## PLUMBER'S BRASSWORK, etc.

	Each			
Boiler screws, single nut ..	1/6	1/11	3/2½	5/6
Do., double nut ..	2/1	2/8	5/1	7/-
Cap and lining ..	1/1	1/6	1/10	2/-
Plumber's unions ..	2/3	2/10	3/11	6/11
Ball valves, screwed iron ..	13/-	20/1	—	—
Do., fly nut and union ..	14/-	21/7	—	—
Bib valves, crutch top screwed iron ..	8/-	12/-	—	—
Do., but screwed boss ..	9/1	13/7	—	—
Stop valves, screwed iron ..	7/-	9/9	—	—
Do., screwed iron and union ..	8/9	13/-	26/3	—
Do., double union ..	10/-	14/3	28/6	—
Waste, plug chain and stay ..	—	—	8/-	9/-
Caps and screws ..	1½in	1½in	2in	4in
Sleeves, long ..	3/10	5/4	—	—
Do., short ..	—	7/2	10/4	—
Thimble ..	—	4/2	8/4	—
Full way gate valves, hot pressed ..	19/6	27/9	—	—
		1½in	1½in	2in
Lead 7lb P. trap ..	6/11	9/-	12/8	—
Do., S. trap ..	8/5	11/1	15/7	—
Lead 6lb P. traps with 3in seal ..	7/8	9/3	—	—
Do., but S. traps, do. ..	9/6	11/7	—	—
Wire balloon guards, copper, 2in, 3/3; 4in 3/6				
Do., galvanized iron, 2in 1/11; 4in 2/1				
Hair felt 34in by 30in, 24oz, 6/- sheet				
Boss white jointing compound, 2/3lb				
Gasket 1/10lb. Hemp, 9/-lb.				

## COPPER TUBES—Extract from B.S. 659/1955—

Nominal bore	Internal work (semi-hard).			3cwt lots	
	Outside diameter	Gauge	Weight lb per ft	Price per lb	Price per ft
1in	0.596	19	0.27	24/-	11.41
1½in	0.846	19	0.39	40/-	15.80
2in	1.112	18	0.62	39/-	24.18
2½in	1.362	18	0.76	38/-	29.17
3in	1.612	18	0.91	38/-	34.93
4in	2.128	17	1.40	40/-	56.00

## CAPILLARY TYPE CONNECTIONS—

Add for delivery and packing on orders under £10.

All ends copper to copper	Each	1in	2in	1in	1½in	1in	2in
Straight ..	..	1/11	2/8½	4/3	5/7	7/6	10/10
Elbow ..	..	3/10	4/9½	6/4	8/1	12/10	26/8
Tees ..	..	4/7½	5/5	8/7½	12/8	18/—	26/8
Brackets (Brass) ..	..	2/—	2/4	2/7	—	—	—

## GLASS

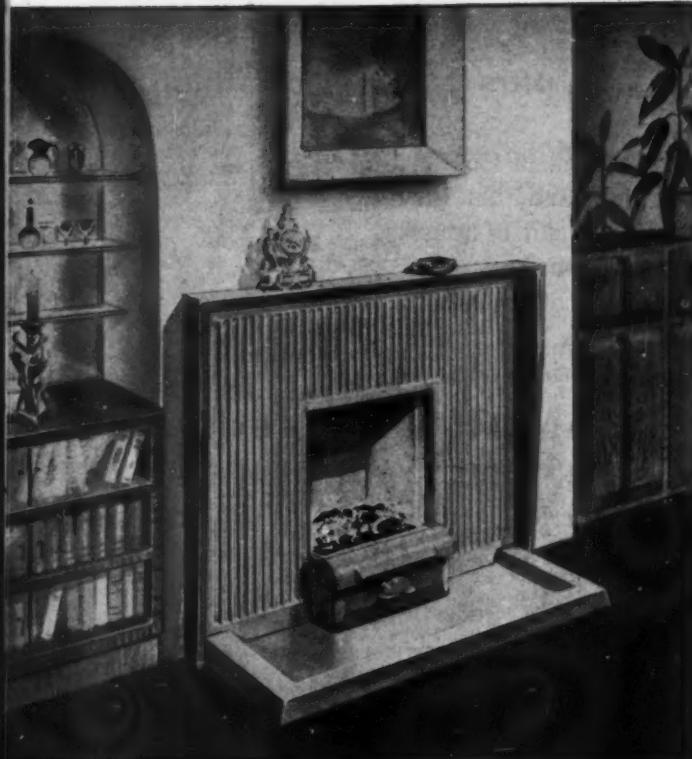
English, flat drawn sheet glass cut to sizes in squares ..	24oz	26oz	32oz	Per foot superficial
Figured rolled, white cut to sizes in squares (1in) ..	10½d	10½d	10½d	1/4d
Figured rolled, white cut to sizes in squares (1in) ..	11½d	11½d	11½d	Per ft super
Ditto, but in standard tints ..	1/10	do.	do.	do.
1in Rolled, cut to size, in squares ..	11½d	do.	do.	do.
1in rough cast do. ..	1/3d	do.	do.	do.
1in do. wired do. ..	1/7½	do.	do.	do.
Georgian wired do. ..	1/7½	do.	do.	do.
Fluted (No. 4) do. ..	1/8½	do.	do.	do.
Reeded (narrow, broad, cross and major) do. ..	1/4d	do.	do.	do.
1in Reedlyte (narrow and broad) do. ..	1/4d	do.	do.	do.
Spotlite do. ..	1/4d	do.	do.	do.
1in Calorex Cast do. ..	1/8	do.	do.	do.
Flashed Opal (15/18oz) up to 1ft super ..	4/2	do.	do.	do.
do. .. over 1ft super ..	5/-	do.	do.	do.
Pot Opal (15/18oz) up to 1ft super ..	4/2	do.	do.	do.
do. .. over 1ft super ..	5/-	do.	do.	do.

## POLISHED PLATE GLASS (Tariff) Cut to sizes.

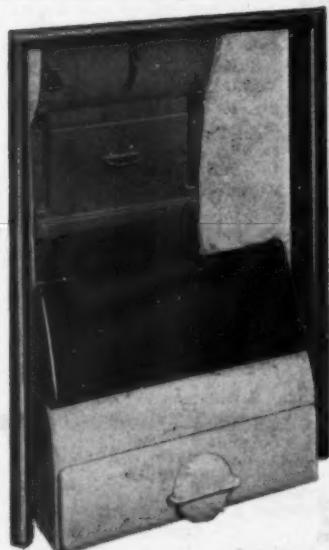
Ordinary substance ½in and 1in thick.	General Glazing
Per Superficial ft	
In plates not exceeding:	
2ft super in each ..	4/3
5ft do. ..	5/3
45ft do. (unless extra sizes) ..	6/3
100ft do. (do.) ..	6/9
Extra sizes, i.e., Plates exceeding 100ft super or 160in one way or 96in both ways at higher prices.	

## DECORATING MATERIAL

	Price	Unit
Aluminium Paint ..	36/-	Gallon
Distemper, ceiling ..	35/-	Cwt
Distemper, washable ..	120/-	do.
Enamel ..	60/-	Gallon
Gold Metallic Paint ..	79/-	do.
Heat Resisting Paint ..	50/-	do.
Japan, black ..	35/-	do.
Knotting ..	50/-	do.
Linseed Oil ..	17/-	do.
Boiled, do. ..	17/9	do.
Proprietary Paints (good class) ..	17/9	do.
Finishing ..	57/6	do.
Priming ..	62/-	do.
Undercoat ..	57/-	do.
Paperhanger's Paste ..	36/6	Cwt
Petrifying liquid ..	9/-	Firkin
Putty ..	54/-	Gallon
Size ..	12/3	do.
Terebine ..	37/-	do.
Turpentine substitute ..	6/5	do.
Varnish, oak, copal inside use ..	45/-	do.
Do., do., outside use ..	45/-	do.
Do., white, eggshell, flat ..	50/-	do.
White lead mixed paint ..	66/6	do.
White lead ..	167/6	Cwt
Whiting ..	13/3	do.

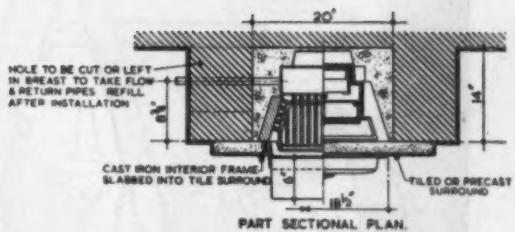
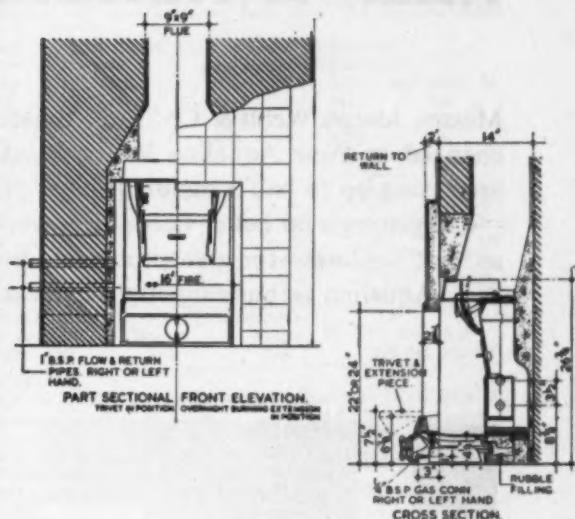


A good looking fire that keeps  
costs down-**LOWBURN**



The Lowburn with boiler is fitted with an extension piece for overnight burning, which is also a useful safety device when the room is unoccupied, and can be used as a trivet.

Non-boiler models have a curved extension piece 2½" high.



...with a special low front

Advanced design and a shallow front give the Lowburn Fire a very high radiant output, *at a low level*. This makes it much more effective than other fires of its type.

**up-to-date appearance** The Lowburn is streamlined to modern tastes, and available in a choice of seven attractive colours.

**all-round economy** The Lowburn is most economical to buy, install and run. The low front allows a warm fire from the bare minimum of fuel.

**on most fuels** The Lowburn will burn most types of fuel, including coke and all the smokeless varieties. Smokeless zones are no problem with a Lowburn.

**convenience** The Lowburn is a continuous burning fire—10 hours without attention—has efficient spin-wheel air control, and can be fitted with gas ignition.

**AND OPTIONAL BOILER  
with self-contained flue set**

The Lowburn is available with a back-boiler, which will provide ample hot water for the average household, *or* heat up to 45 sq. ft. of radiation surface. The boiler has an entirely self-contained flue set, complete with restrictable throat, to cut down room draughts, and save fuel.

**Models available**

16" fire with boiler, to heat 1,750 cu. ft.  
16" fire without boiler, to heat 1,750 cu. ft.  
18" fire without boiler, to heat 2,000 cu. ft.

*The high performance and low costs of a Lowburn, give it a special application in Housing Estate Schemes.*

For full details of the Lowburn Fire, write to the Housing Division of:

**ALLIED IRONFOUNDERS LTD**

Makers of cookers, boilers, fires, stoves and baths.

28 Brook Street, London, W.1



# HALF A HUNDREDWEIGHT SAVING

... plus a superior finish!

Messrs. Joseph Webb & Co. Ltd., Building Contractors of Coseley, changed to *New Aqualine Water Paint*. Now they find that they are saving up to half a hundredweight of material per pair of houses—and getting a far better finish. For work on difficult surfaces—such as "hot" ceilings—for greater covering power and ease of application *New Aqualine* is building itself quite a reputation.

a **MANDERS** case history



NOT AFFECTED BY FROST! *New Aqualine Water Paint* will withstand up to 12 degrees F. (20 degrees frost), and quickly regains peak perfection if the frozen keg is placed in warm water or a warm room.

Use  
**New AQUALINE**  
and cut site losses!

Ask for further information on this superb Water Paint to be sent to you immediately.

## NEW AQUALINE

... proved the best

MANDER BROTHERS LTD • DEPT. P1 • WOLVERHAMPTON • Tel. WOLVERHAMPTON 20601

# CURRENT MEASURED RATES (LONDON)

These apply to new work of normal character and some size. These rates are for time and materials only and carry 10 per cent in excess, so the appropriate essential on-costs should be added. The basis cost of material used in the calculation of these prices is taken from the foregoing tables which carried up to February 4, 1959.

## (COPYRIGHT)

### ESSENTIAL ON-COSTS

Fees payable to L.C.C. for District Surveyor:

The new buildings of ordinary construction not exceeding 5,000 cubic feet

Sectional inches	Lintols and beams	Columns and casings	Braces and projections	Per cubic ft
Up to 36 ..	4/10	5/-	5/2	
36 to 72 ..	4/9	4/11	5/1	do.
72 to 144 ..	4/8	4/10	5/-	do.
over 144 ..	4/6	4/8	4/10	do.
Walls 6in thick ..				19/7 Per super yd
Do. 9in thick ..				28/10 do.
Suspended floors average 6in thick ..				19/6 do.

Over 5,000 cubic feet for every extra 1,000 cubic feet up to 1,000 cubic feet add

Per cwt	4in	5in	6in	8 to 10in
In floors and beams ..	92/-	80/-	75/9	67/6
In walls ..	98/-	85/-	79/9	70/6
In columns ..	105/6	90/3	81/-	73/9

Buildings over four storeys add 3d per 1,000 cubic feet extra for each storey up to eight ..

REINFORCING RODS (round) bent and placed. (Ex Mills)				
Per cwt	4in	5in	6in	8 to 10in
In floors and beams ..	92/-	80/-	75/9	67/6
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In columns ..	105/6	90/3	81/-	73/9

Buildings over four storeys add 3d per 1,000 cubic feet extra for each storey up to eight ..

REINFORCING RODS (round) bent and placed. (Ex Mills)				
Per cwt	4in	5in	6in	8 to 10in
In floors and beams ..	92/-	80/-	75/9	67/6
In walls ..	98/-	85/-	79/9	70/6
In columns ..	105/6	90/3	81/-	73/9

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In walls ..	98/-	85/-	79/9	70/6
In columns ..	105/6	90/3	81/-	7

## MEASURED RATES—Continued

BRICKWORK—Continued  
FACING—

Extra only over common brickwork (118/- per 1,000) for facing with superior bricks in *Flemish bond* and pointing as the work proceeds.

Rustic Flettons (150/-) . . . . . 4/2 per yd super  
White (220/-) . . . . . 9/9 do.  
First Stocks (349/-) . . . . . 21/- do.  
Reds (370/-) . . . . . 20/9 do.  
Blue pressed (604/-) . . . . . 38/3 do.  
If built in English bond, Add 12½% to above.  
If do., half-brick stretcher bond, Less 25% off above.

## COPING—

All labour and material in forming brick-on-edge coping with two course of roofing tiles under and cement weather fillets on both sides, built in cement and pointed as the work proceeds.

Per ft run	9in thick	14in thick
In picked Flettons	6/3	8/5
In first quality Stocks	8/-	12/-
In red facings	7/5	11/11
Plumbing angles	2d per ft run	
Fair cutting	1/- do.	
Fair rake cutting	1/7 do.	
Fair circular cutting	1/7 do.	
Fair squat or birds-mouth	1/11 do.	

## ARCHES

Extra over Fletton brickwork for forming window head with red facing bricks set on end and with 4in soffits and pointing . . . . ft run 3/9  
Do. for rubbed and gauged flat arch in red rubbers set in putty with fine joints . . . . ft super 19/-

## PARTITIONS

(over 100 yards)	2in	2½in	3in	Per yd super—
Concrete slab partitions in cement mortar	11/5	13/-	15/4	
Hollow clay do.	13/5	14/7	16/6	
Cutting and bonding at angles, intersections and ends				5d ft run

## PAVING

	1in	1½in	1¾in	
Grano trowelled gauge 5 : 2	8/6	9/6	10/8	yd super
1in by 5in skirting, square top and cove bottom			2/10	ft run
1in by 6in red quarry tile paving	..	..	32/-	yd super
1in by 6in do. skirting	..	..	1/11	ft run
Jointless flooring, 1in thick	..	..	20/-	yd super

## ASPHALT (normal conditions and fair quantity)

1in pitch mastic floor in	B.S.	1375/47
one coat on felt underlay		
on prepared concrete base	1450/48	

Per yd super	13/-	Brown 14/-	Red 15/9
Unit		Mastic B.S.988	Natural Rock B.S.S.1162/44
1in in two thicknesses on felt underlay on prepared concrete base	yd super	15/-	22/-
Do. in narrow widths	ft super	2/6	3/3
1in skirting 6in high, angle fillet at bottom splayed and turned in at top	ft run	2/6	2/9
External angles	each	6d	6d
Internal do.	each	10d	10d
Tanking or Damp Course	B.S.1097/43	B.S.1418/47	
Vertical in two thicknesses	yd super	22/6	27/-
1in horizontal do.	yd super	13/6	20/-
Vertical in three thicknesses	yd super	30/-	37/-
1in horizontal do.	yd super	19/6	29/-
Labour rounded external angle	per ft run	6d	6d
Do. internal angle fillet	per ft run	10d	11d
Do. double do.	per ft run	1/8	1/8
Collars to small pipes	each	3/6	4/-
Do. to large pipes	each	6/6	8/-

## DRAINAGE

Per lineal yd	1ft in depth	5/10
Excavate trench, and plank and strut to sides, consolidate bottom to fall, return, fill and ram earth after drain is laid and load and remove surplus.	2 do.	9/11
In ordinary ground—moderately firm.	3 do.	22/9
(By hand)	4 do.	29/7
	5 do.	36/6
	6 do.	54/11
	7 do.	67/6
	8 do.	80/-
	9 do.	92/6
	10 do.	104/11
	11 do.	128/1
	12 do.	144/11

Portland cement (1 : 6)	Per yd run
concrete bed under drain 4in pipes and benching up on 18in wide both sides—6in thick	6in 9in 20in wide 23in wide 8/6 10/- 12/3

## SALT GLAZED SANITARY DRAIN PIPES

and lay and joint with Yarn and Cement Mortar in trench.

Quality	Quantity	4in	6in	9in	Per ft run
"Best"	2ton or more	3/1	4/7	7/7	
	50 pieces and over	3/5	5/3	8/6	
	under 50 pieces	3/6	5/4	8/10	
"Best Tested"	2ton or more	3/9	5/10	9/2½	
	50 pieces and over	4/2	6/3	10/2	
	under 50 pieces	4/3	6/5	10/10	
"British Standard"	2ton or more	3/3	4/10	8/-	
	50 pieces and over	3/8	5/6	9/-	
	under 50 pieces	3/9	5/7	9/4	
"British Standard Tested"	2ton or more	3/10	5/9	9/7	
	50 pieces and over	4/5	6/8	11/-	
	under 50 pieces	4/6	6/9	11/5	
Extra for bends "Best"—Contained in 2ton lots		4/2	6/3	16/6	
Extra for junction "Best"—4in on 4in—6in on 6in—9in on 9in	do.	6/6	9/9	27/-	

## IRON DRAIN PIPES—

Heavy cast iron socketed and laying and jointing in molten lead—

Per ft run
4in 6in
14/5 20/2
16/6 23/4
each
30/2 66/1
45/4 86/-
183/- —
85/9 143/6

## MANHOLE SUNDRIES—

4in	6in
Salt glazed straight half-round main channels	each 6/-
Do. curved	do. 14/-
Do. three-quarter section splayed channel bends (Barrows or similar)	do. 18/-
Heavy manhole steps galvanized	do. 9/9
Fix only manhole covers	do. 11/6
4in Mica flap, brass faced, f.a.i. valves and fix with molten lead joint	do. 41/-

## ROOFER

## CORRUGATED ASBESTOS SHEETS

P.C. 8/3½ per super yd including side and end laps and fixing to wood	162/6 per square 2/6 ft run
Eaves filler pieces	4/9 do.
Adjustable ridge	3/4 do.
Barge boards	
Plain roofing tiles, machine made, sand faced, 4in gauge nailed every 4th course with 1½in galvanized nails, to battens (measured separately)	263/- per square 1/4 ft run

Extra over last for top edge or abutment cutting	2/5 ft run
Do. for double course at eaves	3/9 do.
Do. for verges, undercloak, bed and point	
Do. Valley tiles including cutting and waste on both sides	11/3 do.
Do. Bonnet hips and do. bed and point	11/9 do.
Half-round ridge and bed and point	3/6 do.
Fixing soakers	1/8 dozen

12/6/9/- yd super	Per square 16" + 10" 18" + 10" 20" + 10"
3in lap, 2 zinc nails to each slate,	341/- 356/- 414/-

## Additional labours

Per ft lineal—
At tops, verges and abutments—straight 1/9
—raking 2/7
At hips and valleys (each side) 2/7
At eaves, double course 3/6
Do. to falls 5/3
1/10 2/2
2/9 3/1
2/9 3/1
3/8 4/2
5/4 6/3

# the bricks for the job

## SANDLIME·BRICKS

**FOOTINGS**

Sandlime Bricks are available in Special Purpose and other load bearing grades to suit your job; of guaranteed strength and thoroughly durable.

Sandlime Bricks of facing quality (Class A of B.S. 187-1955) give maximum light reflection, are self-cleaning when exposed to rain, and are durable under the most severe conditions.

**FACINGS**

**FEATURES**

Sandlime Bricks give new scope and freedom. In addition to the "natural" whites, a wide range of permanent colours is available.

*The Sandlime Brick Industry is progressive and utilises continuous research carried out both by individual manufacturers and by the Sandlime Brick Division of the Chalk, Lime and Allied Industries Research Association.*

### SANDLIME BRICKS FOR INDUSTRIAL, DOMESTIC AND AGRICULTURAL BUILDING

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The Sandlime Brick Manufacturers Association Ltd., 73/78 High Holborn, London, W.C.1. Telephone HOLborn 5434.  
*A list of members and technical literature can be obtained from the Secretary.*





## B.R.S. Trouble-Free and Noiseless BALL VALVES

### TROUBLE-FREE because :-

No working parts of the valve are in water and no sticking can occur as with the old piston type of fitting.

Cavitation of the seatings is greatly reduced if not entirely eliminated, giving the valve a trouble-free long life many times that of an ordinary ball valve.

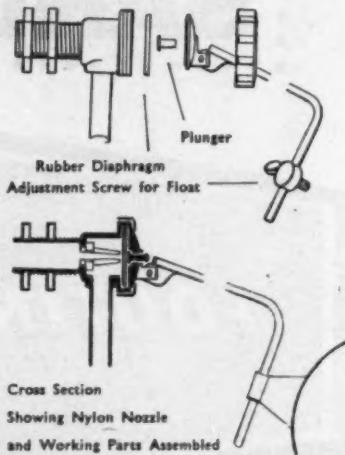
### NOISELESS because :-

Water passes into the cistern through a nylon nozzle shaped to minimise disturbance on contact with a rubber diaphragm and then passes into the cistern through a plastic tube thereby avoiding metallic vibration.

A trouble-free ball valve is the urgent need of Water Boards, Householders and the Building Industry. Now, the KINGLEY B.R.S. BALL VALVE has been produced to meet this need and has the added advantage of being NOISELESS.

The main features of the KINGLEY B.R.S. BALL VALVE are as illustrated, a nylon nozzle shaped to overcome cavitation and a rubber diaphragm which stops the flow of water when pressed against the nozzle by a plunger. The diaphragm keeps the moving parts of the valve dry and free from corrosion and incrustation. The movement of the plunger is controlled by the usual float on a hinged arm, which at its free end is bent down at a right-angle. By means of a thumbscrew on the hinged arm, the float can be fixed on this part of the arm at any height depending on the water level required in the cistern.

For full details and illustrated leaflet write to:-



**KINGS LANGLEY ENGINEERING CO. LTD.**

KINGS' LANGLEY - HERTS

TELEPHONE : KINGS LANGLEY 2215-6

TELEGRAMS : CHAMPION - KINGS LANGLEY

Let **STONHARD**  
solve your industrial  
flooring problems!



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Here's what

The British Thomson-Houston  
Company's, Rugby Works  
Architect  
says about

Stonhard  
Resurfacer —

"We have used STONHARD RESURFACER recently on the conversion of one of our buildings; for many years we have used other materials made by you for patch repair work."

"We have found STONHARD RESURFACER excellent for resurfacing badly pitted floors which could not be further overloaded and where the work had to be carried out without seriously disturbing production."

"Its advantages are that it can be laid to a feather-edge; it sustains heavy impacts without cracking, improves under heavy traffic and tends to be dustproof."

For our free brochure write to:- Stonhard Co. Ltd., Berger House, Berkeley Square, London, W.1

## MEASURED RATES—continued

## FLOORS AND FLATS

Hollow tile <i>in situ</i> or pre-cast units hoisted, bedded and fixed—			
Superimposed load		Span	
in lb per ft super	12ft	16ft	
50	44/-	52/-	
Per yd super	100	46/3	58/3
150	53/-	66/6	
20lb has been allowed to cover dead load in surface, finish.			
Fair edge to slabs		9d per ft run	
Splay cutting and waste		1/9 do.	

## CARPENTER AND JOINER

## SOFTWOOD CARCASSING—

Labour, materials, waste nails, hoisting and fixing	Plates	per ft cube
	19/2	20/8 22/4 25/6

## FLOORING—

Per square—	£in	lin	1½in
Rough boarding	144/-	171/-	203/-
Softwood batten flooring, straight joints, splayed headings	146/6	167/6	206/-
Do. grooved and tongued	167/6	189/6	244/-

## SKIRTING—

Per ft superficial—	£in	£in	lin
Wrot softwood moulded skirting with grounds and backings plugged	3/8	4/3	4/10
Mitres to do.	3d	per sectional in.	
Fitted ends	2d	do.	

## SASHES, fanlights, casements, borrowed lights, etc.—

Without bars	With bars (2ft sup. in each square)
Per ft super—	
2in softwood rebated, moulded and fixed	3/2
Add if fitted with beads	6d
Add if hanging on butts	2/6 each

## WINDOWS, hung on lines—

Softwood cased frames, 1in inner and outer linings, 1½in pulley stiles, 2in sashes, oak sill	Overall size of frames—
Per ft super	6ft 21ft 32ft 44ft
Windows as described	19/6 11/- 8/2 6/5
Add if sashes in squares, about 2ft super in each	— 1/6 2/- 1/11
Extra for hanging sashes with lines, weights and axle pulleys	30/3 50/3 62/3 84/3

## FINISHINGS TO OPENINGS—

Softwood linings, tongued at angles and tongued to frame including grounds and backings	Per ft super—
3/7	1in 1½in 5/8in
Add if crosstongued	6d 6d 6d 6d
Softwood wrot rounded on front edge and with tongue at back window board including groove in sill and bearers	3/6 4/- 4/11 5/5
Add for ends to last notched, returned and rounded	1/1 1/2 1/3 1/4

## Per ft run—

Softwood wrot and fixed in bearers, bucklings, grounds, fillets, and similar	Sectional area in in—
3½d	1 2 3 4 5 6
2d	6d 8d 11d 1½d 1/3d
4d	2d 2½d 2d 3d 3d
4d	4d 4d 4d 4d 4d
3d	3d 4d 4d 6d 6d
3d	3d 3d 4d 4d 6d
3d	3d 3d 3d 3d 3d
3d	1½d
3d	3d

## DOOR FRAMES—

Per sectional in—	6in	8in	12in	12in	13½in
Softwood, wrot, rebated	2/2	2/6	3/2	3/6	3/9

## DOORS—Per ft super

Number of panels—	1	2	3	4	5	6
2in Softwood square	6/10	7/5	8/-	8/4	8/10	
framed and flat panels, both sides, on butts	6/—	6/2	6/7	7/2	7/7	8/1
1½in do.	5/4					
Add for each side moulded	3d	4d	5d	6d	7d	8d
Add B.S. flush panelled	1/6	1/6	1/6	1/7	1/8	1/8

Per ft super—	£in	lin	1½in	1¾in
In shelves, table tops, wrot and fixed	2/4	2/7	3/—	3/6
Do. in divisions and ends framed	2/7	2/10	3/3	3/11
Add if crosstongued	6d	6d	6d	6d
Add if buttoned	6d	6d	6d	6d

## SUNDRIES—Per ft run—

In short lengths	In long lengths	Add for cups and screws
Glazing, beads mitred around and fixed with beads	6d	4d 2d
Rounded heel or hollow		4d
Tongued and grooved angle		6d
Glue blocking		6d
Mitres	3d	per sectional in
Fitted ends	2d	do.

## STAIRCASE—

1½in Softwood treads with moulded nosings	Per ft super
1in risers tongued both edges and glued, blocked and bracketed on and including two fir framed carriages	6/1
Do. but in winders	7/6
1½in crosstongued landing on framed carriages	6/3
2in moulded string	5/-
2in do. ramped	12/-
Ends framed to newel	9/10 each
Tongued heading joints	5/6 do.
Ends of treads and risers housed to string	3/6 do.
Extra for curtail ends to steps, glued up and veneered riser and solid blocking	100/- do.
Balusters about 2ft 9in long, square and framed each end	1in 1½in 2/9in 5/3in
3½in by 3½in square newel, framed	4/- per ft run
African mahogany moulded 3in by 2in hand-rail. (Joints below)	9/3
Do. ramped 18in girth (do.)	54/- each
Do. wreathed do. (do.)	160/- do.
Joint or framed ends	12/- do.

## FIXING ONLY IRONMONGERY

To deal	To hardboard
Barrel bolts	1/10 2/9
Flush bolts	5/6 4/10
Sash fasteners	2/6 3/-
Rim locks and furniture	4/6 6/-
Mortice locks and do.	7/6 17/9
Cupboard locks	2/9 3/5
Casement fasteners	2/3 2/9
Do. stays	2/3 2/9
Grip handles	2/7 3/5
Spring catches	2/3 2/9
Cabin hooks	1/10 2/5
Floor springs including oil	49/- 63/-
Overhead springs	14/7 20/-
Springhinges	14/- 19/-

## SMITH AND FOUNDER

Additional cost per cwt over basic sections for following R.S.J.s
9in by 7in, 10in by 8in, 12in by 8in, 14in by 8in, 16in by 8in, 18in by 6in, 18in by 7in, 20in by 6½in, 20in by 7½in
22in by 7in, 1/1 cwt 4in by 3in
5in by 3in, 5in by 2½in
6in by 3in, 24in by 7½in
3in by 3in, 2/9 cwt 4½in by 1½in
3in by 1½in
Cleats, brackets, packing pieces, etc., in connections, including rivets and bolts
Forged straps
Wrot iron balustrade

## RAINWATER GOODS—

Round cast-iron pipe with socketed joints caulked with red lead and tow and fixing with pipe nails and gas barrel distance pieces to plugs in brickwork	Per ft lineal
2in	3in 4in
4/5	4/10 6/2
5/7	7/2 10/3
8/5	10/9 15/7
6/7	8/6 10/10

## RAINWATER GUTTERS

Per ft. run—	4in	5in	6in
Half round CI gutters jointed in red lead and bolted and fixed on iron brackets	3/11	4/8	5/9
Ogee do. All as last	4/4	5/—	6/3
Extra for stop ends	3/2	3/10	4/—
Do. angles or outlets	5/6	7/—	8/4

## MEASURED RATES—continued

## PLUMBER

## EXTERNAL—

4lb Milled Sheet lead per cwt 149/3 191/6 203/—

LEAD PIPES: running joints, etc.

Per ft run	1in	1in	1in	1½in	1½in	2in
Main	Fixed	4/4	6/1	8/6	10/8	13/6 18/5
Service	with	3/10	5/5	7/1	8/8	10/11 14/11
Waste	hooks	2/9	3/10	5/—	7/4	7/11 10/1
Bends	each	—	—	1/9	3/—	8/—
Solder joints	do.	9/8	11/8	13/5	13/8	18/2 23/8
Union and joints	do.	13/9	16/8	20/4	26/—	—
Stop valve and do.	do.	27/6	37/6	51/9	82/—	—
Bib valve and do.	do.	19/—	26/3	—	—	—
Ball valve and do.	do.	26/—	35/6	51/—	78/—	—
Sleeve and do.	do.	—	—	—	—	21/— 29/—

## COPPER TUBES

	1in	1in	1in	1½in	1½in	2in
Tubes per ft run	2/9	3/3½	4/3½	5/3	6/7	9/4½
Couplings: straight	each	3/7	4/4½	6/7	8/6	11/— 15/—
Do. Elbows each	..	5/8	6/8½	8/10	11/3	16/9 32/4
Do. Tees do.	..	8/3	9/7	13/10	19/—	25/6 32/1
Do. Cisterns do.	..	4/8	6/3	8/4	10/6	14/4 18/11
Stop cocks do.	..	24/4	35/4	63/—	104/6	159/— 240/—

BLACK TUBING (Heavy) 1in	1in	1in	1½in	1½in	2in
fixed with pipe brackets	..	..	..	..	..
Tubes, per ft run	2/4	2/8	3/3	4/1	4/9 6/10
Bends and fix, each	5/1	5/10	7/10	10/5	12/1 18/3
Tees and do.	5/7	6/7	7/11	10/—	12/1 17/9
Fire bends	..	2/—	2/6	2/9	3/— 4/— 7/3

Coated iron (M) weight L.C.C. soil and waste fixed with nails and distance	2in	4in
pieces and molten lead joints	5/9	8/4 ft run
Extra only for bends and joint	14/9	23/8 each
Do. junctions and joints	16/4	29/9 do.
Do. cleaning doors	16/—	17/6 do.
Domical wire guards	2/6	2/9 do.

PLASTERER—			yd super
Lime and hair	1in	Render and set	6/9
Do.	1½in	Do. float and set	9/8
Sirapite	1in	Skimming coat	4/4
Do.	1in	Render and set	8/—
Do.	1in	Render, float and set	10/7
Portland	1in	Backing coat	4/10
Do.	1in	Plain face	8/—
Do.	1in	Floor screed	4/10
Keenes	1in	Skimming coat	5/2
Dubbing	1in	Thick or less	2/4
Metal Lathing	1in	mesh by 24 Gauge	6/10
6in by 6in by ½in Earthenware Plain Glazed Tiles, in fair quantity, white, and setting (on prepared screed)	..	..	45/—
Rounded edge. Extra over last	..	6d per ft run	..
Angles in do.	..	6d each	..
Cutting and fitting. Around pipes or clips	..	1/6 do.	..
Narrow widths. 3in to 6in wide. Add 75 per cent to plain surface.	..	..	..
Do. 6in to 12in do. Add 40 per cent to plain surface.	..	..	..
Sundry labours per ft lineal:	..	..	..
Quirk 3d. Arris 4d. Fair edge 3d. Rounded edge 5d.	..	..	..

## POLISHING

## NEW WORK—

Staining, bodying-in and French Polish	Ft super	Ft run	Sashwork
Staining and wax polishing on hardwood	2/9	1/9	9d

## OLD WORK—

Cleaning down old work and repolish	1/2	—	
Stripping, preparing and repolishing	3/—	2/—	

## INTERNAL PAINTING

With white lead base in common colours, with brushes.

Knot	Prime	Prime	Add
stop	and	and	for each
and	paint	paint	extra
ON WOOD—	prime	once	twice
General surfaces	2/9½	5/7	8/—
			2/2 yd super

## Running lengths not exceeding 3in wide

Do. 3in to 6in wide	3½d	8½d	1/—	3½d	yd run
Do. 6in to 9in wide	5½d	11d	1/4	4½d	do.
Do. 9in to 12in wide	8½d	16d	2/1	6½d	do.
Sash square each side	11d	1/11	2/7	8½d	do.
Do. in large squares	5/5	10/3	14/11	4/1½	per do.
Opening edges ..	8/3	15/7	20/10	6/7	do.
Casement frames each side	7d	1/2	1/9	7d	each

## ON PLASTER—

Paint on surfaces ..	..	One coat	Two coats	Three coats	per yd
Do. on mouldings ..	..	3/—	5/7	9/1	super
Do. on enrichment ..	..	3/4	6/—	11/5	do.
	..	6/—	11/5	17/—	do.

## ON STEEL

Paint on structural steel ..	2/5	4/7	6/10	do.
Do. on roof trusses ..	2/8	5/1	7/8	do.
Do. on metal windows measured over all on both sides, divided into squares	3/5	5/9	8/7	do.
Do. divided into large squares ..	2/10½	5/—	6/9	do.
Do. divided into extra large squares ..	2/5½	4/2	5/10	do.
Do. on opening edges ..	10d	1/6	2/—	each
Do. on rain water pipe ..	10d	1/6	2/2	yd run
Do. on do. gutter ..	1/3	2/8	3/7	do.
Do. on small pipe ..	3d	6d	10d	do.

## GLAZING (to New Work)

Polished Plate Glass ordinary substance (about ½in), glazing quality, in the following sizes, glazed complete—Per ft super in plates not exceeding 2ft super in each .. 6/10

5ft do. .. 7/11

Do. (unless extra sizes) 45ft do. .. 9/—

Do. (unless extra sizes) 100ft do. .. 9/7

Add extra price for glazing with screw beads or clips 5d/ft per ft super.

Do. if glazing bedded in washleather or velvet 9d per ft run.

GLAZING (to New Work)

Polished Plate Glass ordinary substance (about ½in), glazing quality, in the following sizes, glazed complete—Per ft super

in plates not exceeding 2ft super in each .. 6/10

5ft do. .. 7/11

Do. (unless extra sizes) 45ft do. .. 9/—

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Add extra price for glazing with screw beads or clips 5d/ft per ft super.

Do. if glazing bedded in washleather or velvet 9d per ft run.

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## DISTEMPERING—In common colours, put on with brushes—

## ON PREPARED SURFACE

per yd super—	1 coat	2 coats	Add if required
(finish)	(under-coat and finish)		
Ordinary distemper on flat surface of plaster	9d	1/4½	6d
Washable do. on do. of plaster	1/—	1/10	6d
Add if in margins, narrow widths or panels	30%	30%	20%
Add if on mouldings	50%	50%	45%
Add if on enrichments	160%	160%	115%

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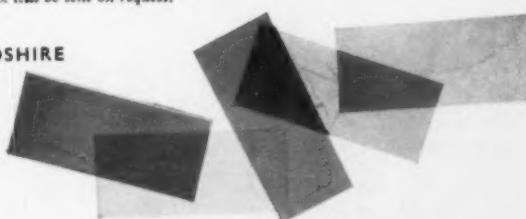
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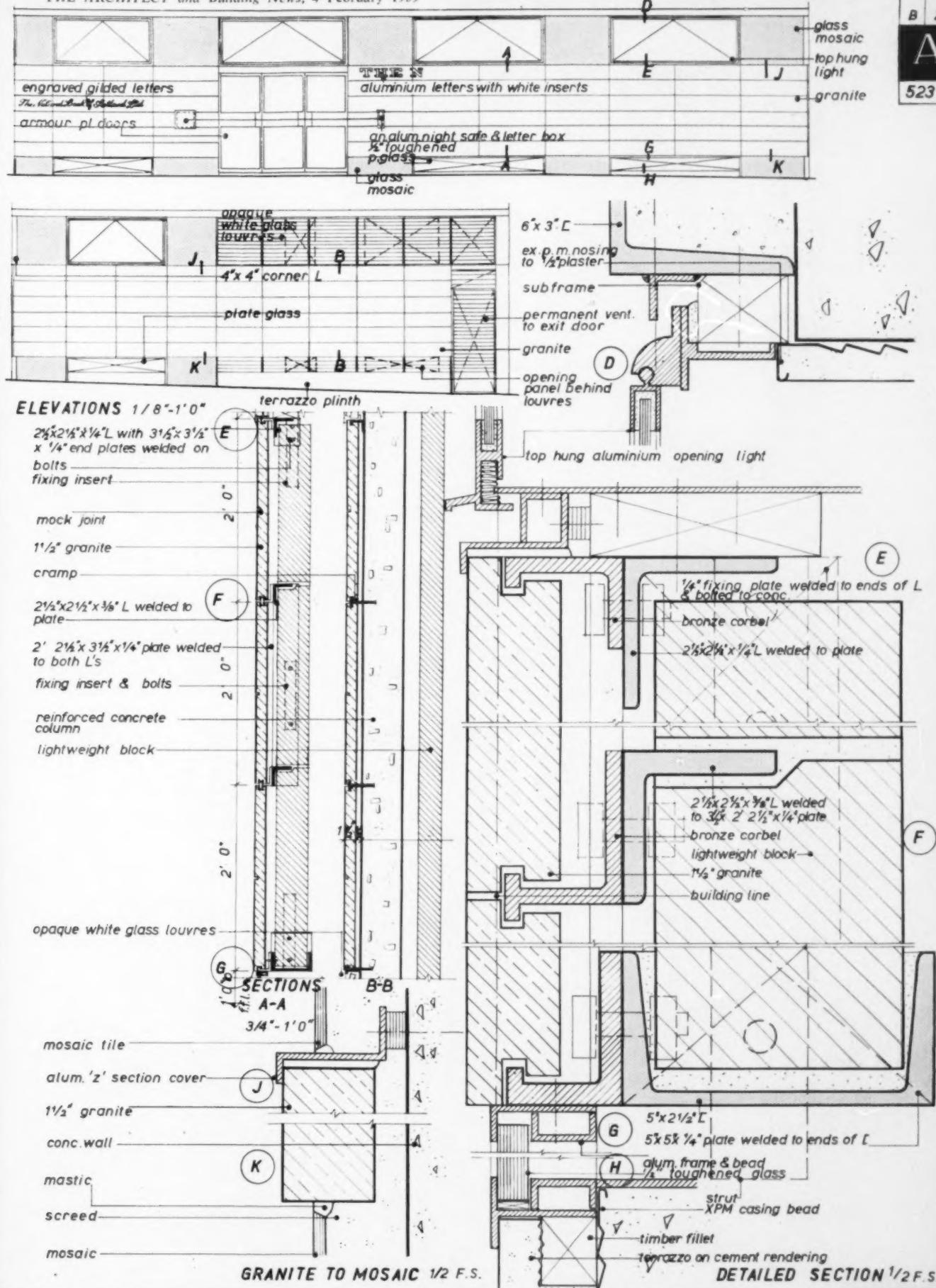


A section of Broughton Moor Slate, showing the highly polished finish. Finely rubbed, naturally riven, sanded and frame sawn finishes are also supplied, and technical pamphlets showing typical methods of fixing are available, as follows: 1. Flooring; 2. Facings; 3. Coping; 4. Cills; 5. Riven Face Slabs.

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Notes below give basic data of contracts open under locality and authority which are in a bold type. References indicate: (a) type of work (b) address for application. Where no town is stated in the

## CONTRACT NEWS

### OPEN

### BUILDING

**AMESBURY R.C.** (a) 22 houses and 13 bungalows at Amesbury. (b) Messrs. Bothams & Brown, 32 Chipper Lane, Salisbury. (c) £2gn, payable to Council. (d) February 9.

**AMPHILL R.C.** (a) Three bungalows and site works at Greenfield Road, Westoning. (b) Engineer and Surveyor, 12 Dunstable Street, Ampthill, Bedford. (c) 2gn. (e) February 16.

**ASHTON-UNDER-LYNE B.C.** (a) Fixed price tenders for the erection of 106 houses on Lord's Fields estate, Ashton-under-Lyne. (b) Borough Surveyor, Municipal Buildings, Ashton-under-Lyne. (c) 3gn. (e) February 18.

**BEDDINGTON AND WALLINGTON B.C.** (a) 42 flats at Mill Green, London Road, Mitcham Junction, Surrey. (b) Town Clerk, Town Hall, Wallington, Surrey. (d) February 14.

**CASTLEFORD B.C.** (a) Erection and completion of 68 houses, complete with external works, drainage and services, at Half Acres, Castleford, Contract No. 144. (b) Borough Engineer and Surveyor, Town Hall, Castleford. (c) 2gn. (e) February 21.

**CIRENCESTER R.C.** (a) Fixed price tenders for the erection of 14 dwellings at Quenington. (b) Pyle & Saint, Thomas Street House, Cirencester, Glos. (c) 2gn, by cheque, payable to Council. (e) February 16.

**COLCHESTER B.C.** (a) (i) Eight two-storey flats at Shrub End site; (ii) 24 three-storey, two-storey flats and houses at Monkwick site; and (iii) 137 three-storey, two-storey flats, houses and bungalows at Greenstead site. (b) Borough Engineer, 1 West Stockwell Street, Colchester. (c) (i) 2gn; (ii) 4gn; and (iii) 12gn. (e) February 17.

**CORNWALL C.C.** (a) Fixed price tenders for the construction of a branch library at St. Austell. (b) County Architect, County Hall, Truro. (c) 3gn. (d) February 7. (e) Mid-March.

**DAGENHAM B.C.** (a) 79 dwellings at Beamway, Rainham Road. (b) Borough Surveyor, Civic Centre, Dagenham. (c) 2gn. (e) February 26.

**EIRE—CARLOW E.C.** (a) Extension to Tullow Vocational School. (b) Chief Executive Officer, Vocational Education Committee, Court Place, Carlow. (c) 10gn. (e) February 14.

**ESSEX C.C.** (a) (i) Nurse's house at Stanway, nr. Colchester, estimated to cost £2,250; (ii) school teachers' houses (four) at Brentwood St. Martin's Secondary School, estimated cost £10,000; (iii) and (iv) schoolkeepers' houses at Loughton Secondary School and Aveley Technical School, estimated cost £2,250 each; (v) additional classrooms, etc., at Rawreth C.E. Primary School, estimated cost

address it is the same as the locality given in the heading (c) deposit (d) last date of application (e) last date and time for submission of tenders. Full details of contracts marked \* are given in the advertisement section.

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£6,200; (vi) alterations and additions to Colchester Fire Station, estimated cost £10,000; (vii) kitchen and dining room at Hornchurch Langtons Primary School, estimated cost £10,000; (viii) additional classrooms at Hornchurch Whybridge Primary School, estimated cost £9,750; (ix) completion of Chigwell The West Hatch Technical School, estimated cost £63,500; and (x) classroom/library, etc., at Colchester St. Helens Secondary Girls' School, estimated cost £3,325. (b) County Architect, County Hall, Chelmsford (separate applications). (d) February 7.

**GODALMING B.C.** (a) Fixed price tenders for the erection of 20 dwellings at Summers Lane, Farncombe. (b) Borough Engineer and Surveyor, Branksome, Filmer Grove, Godalming. (c) 2gn. (e) February 13.

**GOWER R.C.** (a) Eight houses and 12 flats at Manchester site, Penclawdd. (b) Engineer, 19 Uplands Crescent, Swansea, Glamorgan. (c) 5gn. (e) February 18.

**GWYNEDD POLICE AUTHORITY.** (a) Extensions to Llandudno police station. (b) County Architect, County Offices, Caernarvon. (c) 2gn, by cheque, payable to the Authority. (d) February 7.

**HAMPSHIRE C.C.** (a) Erection of Cove Manor Junior School. (b) County Architect, The Castle, Winchester. (c) 2gn, payable by cheque to County Treasurer. (d) February 6.

**HARLOW U.C.** (a) Three-storey block containing five maisonettes and five flats at Cock Green, Great Parndon, Harlow, Essex. (b) Engineer and Surveyor, Nettewell Hall, Harlow, Essex. (c) 2gn. (e) February 28.

**HUDDERSFIELD B.C.** (a) All trades firm price tender for the erection of (i) 16 flats and four bungalows at Bradley estate; and (ii) 16 flats (including demolition work) at Towngate, Nelson. (b) Borough Architect, High Street Buildings, Huddersfield. (c) 2gn. (e) February 13.

**INGOLDMELLS P.C.** (a) Block of 20 brick chalets at Ingoldmells Point. (b) Clerk to the Council, 2 Festival Avenue, Ingoldmells, Lincs. (e) February 14.

**MAIDENHEAD B.C.** Contract 5K. (a) 11 pairs of houses and one block of four houses, together with all necessary drainage and site works, at Cox Green estate. (b) Borough Engineer, 14 Craufurd Rise, Maidenhead. (c) 2gn. (e) March 9.

**MARGATE B.C.** (a) Three-storey block of 21 flats at Flint Row, Margate. (b) Borough Engineer, 38 Grosvenor Place, Margate, in writing. (e) February 21.

**NEWCASTLE UPON TYNE E.C.** (a) Erection of extensions to Heaton Grammar and High Schools, comprising two-storey laboratory building, together with reinforced concrete basement. (b) City Architect, 18 Cloth Market, Newcastle upon Tyne, 1. (d) February 7.

**NORTH COTSWOLD R.C.** (a) Firm price tenders for the erection of six dwellings at Guiting Power; 11 houses at Longborough; eight houses at Ebrington; six houses at Stow-on-the-Wold; six houses at Willersey and three old people's bungalows at Broadwell and two at Chipping Campden. (b) Council's Clerk, Council Offices, Moreton-in-Marsh, Gloucestershire. (d) February 7.

**N. IRELAND—NORTHERN IRELAND HOSPITALS AUTHORITY.** (a) Construction of a new mortuary at South Tyrone Hospital. (b) The Secretary, Northern Ireland Hospitals Authority, Belfast. (d) February 9.

**NORTH WALSHAM U.C.** (a) Eight unity type flats and four unity type houses on fixed price basis. (b) Council's Clerk, Council Offices, New Road, North Walsham, Norfolk.

**NORTHWICH U.C.** (a) Construction and erection of the Northwich Victory Memorial Hall. (b) Messrs. Elleray & Wallace, Chester Way, Northwich, or Engineer and Surveyor, The Council House, Northwich. (e) February 16.

**OAKHAM R.C.** (a) Four houses, four bungalows and four garages, together with road works, etc., at Exton, near Oakham. (b) Messrs. Pick, Everard, Keay & Gimson, 6 Millstone Lane, Leicester. (c) 2gn. (e) February 20.

**PRESTON B.C.** (a) Erection of police operations centre in Pedders Lane, Ashton, Preston. (b) Borough Engineer and Surveyor, Municipal Buildings, Preston. (c) 2gn. (e) February 12.

**RIPON AND PATELEY BRIDGE R.C.** (a) 17 bungalows, together with drains, paths, fences and external services at east side of High Street. (b) J. C. Kenyon, Council Offices, Pateley Bridge, Yorks. (e) February 24.

**ROWLEY REGIS B.C.** (a) 76 houses, eight bungalows and 14 garages on Blackberry Lane estate, Springfield. (b) The Architect, Municipal Buildings, Old Hill, Staffs. (c) 5gn. (e) March 3.

**ST. ALBANS C.C.** (a) 38 houses on London Road estate, St. Albans. (b) City Engineer and Surveyor, 16 St. Peter's Street, St. Albans. (c) 3gn. (e) February 17.

**ST. THOMAS R.C.** (a) Erection of (i) two bungalows at Stoke Canon; and (ii) three bungalows at Broadclyst. (b) Messrs. Lucas, Roberts & Brown, Barnfield Hill, Exeter. (e) February 11.

**SALFORD C.C.** (a) Firm price tenders for (Contract No. 1) changing rooms at Legh Road playing fields, Salford, 7; (Contract No. 2) changing rooms at Northumberland Street playing fields, Salford, 7; (Contract No. 3) additional classrooms, etc., at St. Paul's C.E. School, Moor Lane, Salford, 7; and (Contract No. 4) alterations and extensions to Lower Kersal Primary School, Northallerton Road, Salford, 6. (b) City Engineer, Town Hall, Salford, 3. (c) 2gn each contract. (e) February 23.

**SCOTLAND—DALKEITH B.C.** (a) All trades except painter work for 51 houses on Duke's Park (second development). (b) Messrs. Morham & Brotchie, 29 Hanover Street, Edinburgh.

**SCOTLAND—DUNDEE CORPORATION.** (a) Design and erection of multi-storey flats of point block design in blocks 12 and 15 storeys in height, for the redevelopment of isolated sites. (b) City Quantity Surveyor, 21 City Square, Dundee. (e) February 20.

**SCOTLAND—HELENSBURGH B.C.** (a) Erection of dwellinghouses at I.D.

Hospital and Victoria Nursery sites, Helensburgh (all or individual trades). (b) Messrs. W. Gladstone Brown & Muir, 102 Bath Street, Glasgow, C.2, stating trade or trades for which applicant wishes to tender. (d) February 6.

**SCOTLAND—INVERNESS C.C.** (a) Fixed price tenders for one block of two four-apartment police houses at Alma Road, Fort William. (b) County Architect, The Castle, Inverness. (d) February 10.

**SCOTLAND—ROSS AND CROMARTY C.C.** (a) Separate trades for the erection of (i) three blocks of two houses at Sandwick; (ii) four blocks of two houses at Plasterfield; and (iii) two blocks of three-apartment houses (six houses) and two blocks of four-apartment houses (14 houses) at Tong, comprising site preparation, brick, etc., work, carpenter and joiner, roof tiler and roughcast, plumber, plaster, electrical, painter and glazier. (b) Messrs. R. Armour & Partners, 166 Union Street, Aberdeen. (d) February 9, stating trade(s) for which schedules are required. Tendering for individual sites within the contract will not be permitted.

**STOCKPORT B.C.** (a) Erection of (i) Fylde Lodge High School for Girls (first phase); (ii) Belmont Secondary School; and (iii) 10 houses and 12 flats (Contract 53). (b) Borough Architect, Town Hall, Stockport. (c) 2gn each contract. (e) (i) and (ii) March 4, and (iii) March 2.

**WAKEFIELD C.C.** (a) Erection of a five-storey extension to the Technical College in Margaret Street, Wakefield. (b) City Engineer, Town Hall, Wakefield. (d) February 9.

**WALLASEY B.C.** (a) 74 units of accommodation in four-storey maisonettes in Church Street area, together with 22 garages and an electricity sub-station, paths, drains and ancillary works. (b) Borough Architect, Town Hall, Wallasey. (e) February 19.

**WELLINGBOROUGH U.C.** (a) Fixed price tenders for the erection of a single-storey self-service shop at Queensway, Wellingborough. (b) Engineer and Surveyor, Council Offices, Swanspool, Wellingborough. (c) 2gn. (e) February 16.

**WESTMORLAND C.C.** (a) Erection of a new home for 40 old people and resident staff at Kirkby Stephen. (b) County Architect, County Hall, Kendal, Westmorland. (d) February 9.

**WEST RIDING C.C.** (a) Erection of an additional dining space at Bretton Hall Training College. (b) County Architect, Bishopsgarth, Westfield Road, Wakefield. (d) February 9. (e) February 23.

**WORCESTER C.C.** (a) Adaptation and extensions to form old people's hostel at Warndon Hall. (b) City Engineer and Surveyor, 22 Bridge Street, Worcester. (c) 3gn (cheques payable to Corporation of Worcester). (e) February 21.

**YORK C.C.** (a) Fixed price tenders for the erection of 27 dwellings on sites 11/12 (Townend Street) in the Groves redevelopment area, York. (b) City Architect, 8 St. Leonard's Place, York. (c) £3 (cheques payable to York Corporation). (e) February 23.

## PLACED

Notes on contracts placed state locality and authority in bold type with (1) type of work (2) site, (3) name of contractor and address, (4) amount of tender or estimate. † denotes that work may not start pending final acceptance, or obtaining of licence, or modification of tenders, etc.

**NORWICH.** (1) Ten-storey block of offices for Norwich Union Insurance Societies. (2) All Saints' Green. (3) R. C. Carter Ltd., Drayton, Norwich. (4) £1,250,000.

**BURNLEY B.C.** (1) First phase extensions of Municipal College. (3) Holland & Hannen and Cubitts (North-Western) Ltd., Garston, Liverpool. (4) £114,449.

**FULHAM B.C.** (1) 162 flats and maisonettes. (2) Dieppe Street. (3) Tersons Ltd., 4 Dollis Park, London, N.3. (4) £314,869.

**LEICESTER C.C.** (1) 202 dwellings. (2) Eyres Monsell estate. (3) John Laing & Son Ltd., London, N.W.7.

**GUILDFORD R.D.C.** (1) 46 flats. (2) Longacre, Ash. (3) F. J. Minns Ltd., Botley, Oxford. (4) £65,844.

**BARNES B.C.** (1) 40 flats. (2) Westfields estate. (3) Caffin & Co. Ltd., 25 Craven Street, London, W.C.2. (4) £70,152.

**LICHFIELD C.C.** (1) 74 dwellings. (2) Wheel Lane estate. (3) Joseph Webb & Co. Ltd., Ivy House Lane, Coseley, Bilston, Staffs.

**LONDON, W.** (1) Alterations to White's Hotel. (2) Lancaster Gate, W.2. (3) J. Garrett & Sons Ltd., Cathies Road, Balham Hill, London, S.W.12. (4) £30,000.

**KIDDERMINSTER B.C.** (1) Contract 1 of redevelopment, houses and flats. (2) Broad Street. (3) Geo. Wimpey & Co. Ltd., Hammersmith Grove, London, W.6. (4) £126,592.

**PORTADOWN (CO. ARMAGH) B.C.** (1) 130 houses and 20 old people's dwellings. (2) Killycoomain estate. (3) Collen Bros. Ltd., Hanover Street, Portadown. (4) £233,177.

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**PORTSMOUTH C.C.** (1) Modern school. (2) Court Lane. (3) Grove Road, Drayton. (3) Frank J. Privett Ltd., Copnor Road, Portsmouth. (4) £99,342. (1) 80 flats and maisonettes. (2) Green Road. (3) H. E. Collins Ltd., Eastern Road, Farnborough, Portsmouth. (4) £118,650.

**WEST HAM B.C.** (1) 72 maisonettes, 35 houses, 46 flats. (2) Windmill Lane. (3) Tersons Ltd., 4 Dollis Park, London, N.3. (4) £287,618.

**BIRKENHEAD B.C.** (1) 84 dwellings. (2) Oxton Road. (3) Unit Construction Co. Ltd., Speke Boulevard, Liverpool. (4) £119,584. (1) 55 dwellings in five-storey blocks. (2) New Chester Road. (3) Geo. Wimpey & Co. Ltd., London, W.6. (4) £93,618.

**EDINBURGH C.C.** (1) 119 houses, six shops, and 10 shops. (2) Clermiston South and Meadowfield. (3) Hart Bros. (Builders) Ltd., Macmerry, East Lothian. (4) £215,954.

**NOTTINGHAM** (1) Block of offices for Boots Pure Drug Co. Ltd. (2) Station Street. (3) William Moss & Sons Ltd., Queen's Road, Loughborough. (4) £750,000.

**WESTON-SUPER-MARE B.C.** (1) 67 dwellings. (2) Bourneville estate. (3) W. J. Pople & Sons Ltd., High Street, Burnham-on-Sea, Somerset. (4) £100,858.

**DURHAM UNIVERSITY** (1) First stage of physics block. (3) J. Gerrard & Sons Ltd., Swinton, Manchester. (4) £80,000.

**BLACKWELL (NOTTS) R.D.C.** (1) 106 dwellings. (2) South Normanton. (3) C. Milward & Co. Ltd., Kirkby-in-Ashfield, Notts.

**SOUTHPORT** (1) Luxury flats, offices, showrooms. (2) Lord Street. (3) Tersons Ltd., Church Street, Liverpool. (4) £100,000.

**WORCESTER C.C.** (1) 281 dwellings. (2) Wardon estate. (3) A. C. Lloyd (Builders) Ltd., 1 Chapel Street, Leamington Spa. (4) £365,505.

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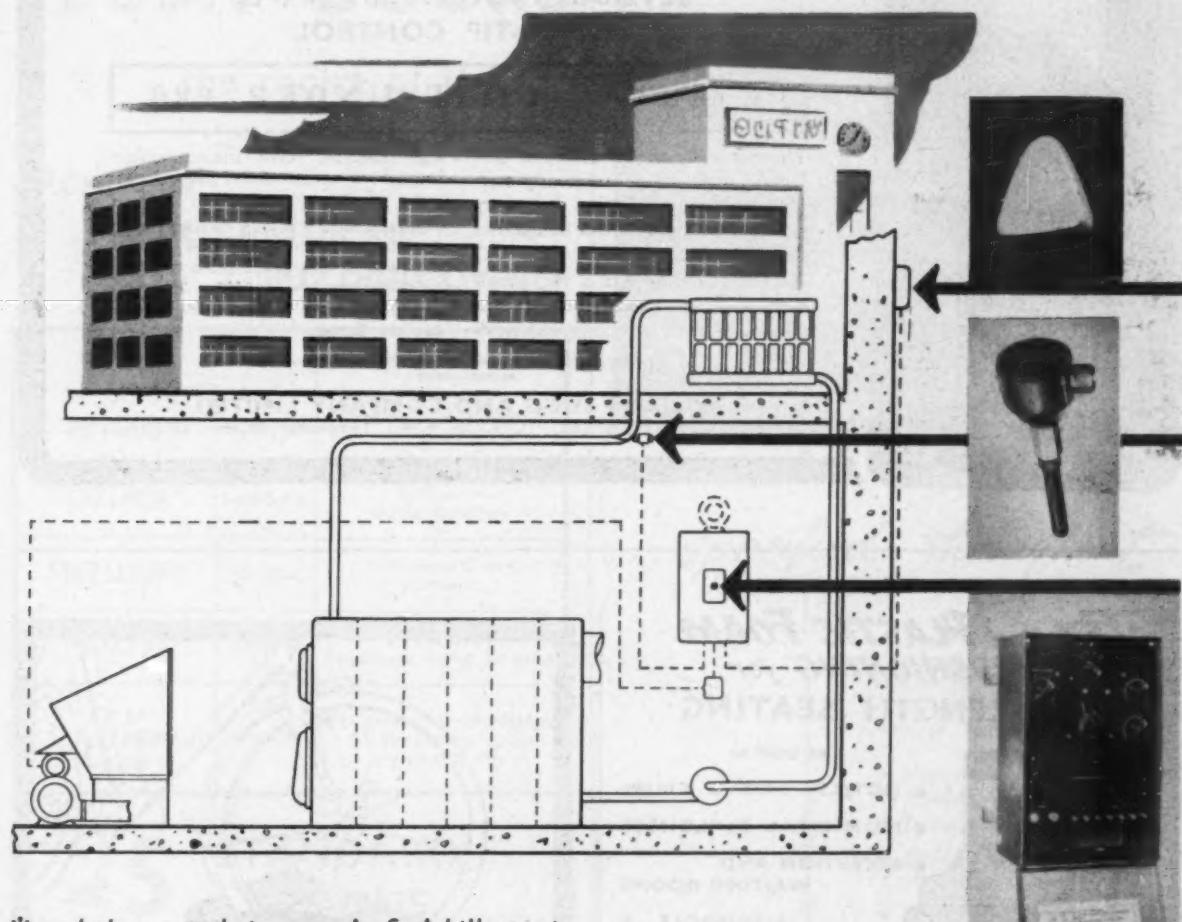
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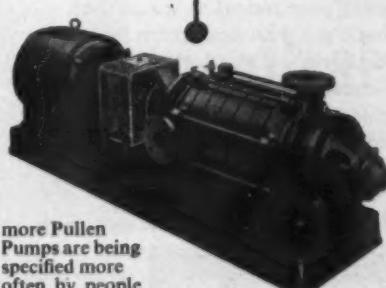


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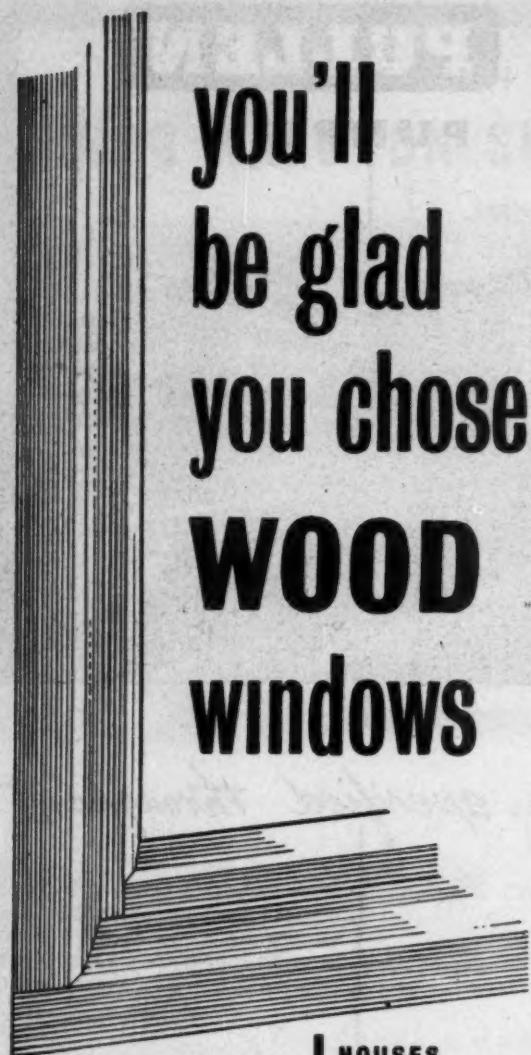


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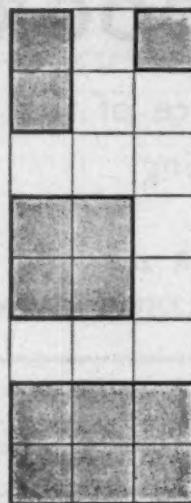
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February 1957

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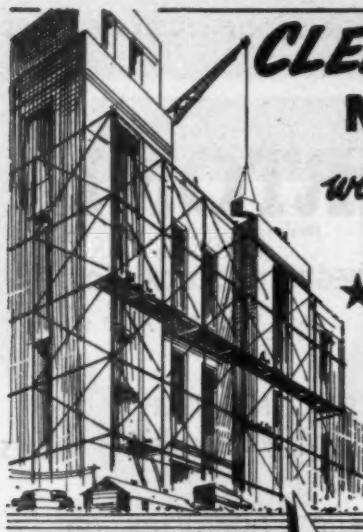
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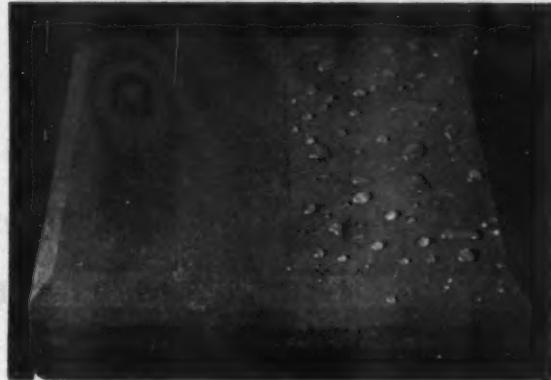
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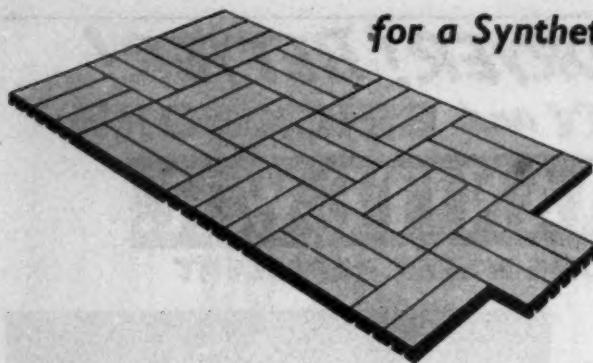
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# OFFICIAL ANNOUNCEMENTS

## APPOINTMENTS • CONTRACTS • TENDERS

Rate: 20/- per inch and pro rata, minimum half inch. Close for press 1st post Monday for following Wednesday Issue

### APPOINTMENTS

#### Borough of Wrexham

APPLICATIONS are invited for the appointment of Architectural Assistant, salary APT I (£575 to £725 per annum). Point of entry according to qualifications and experience. House provided if required.

Applications to the undersigned by 12 noon, February 9, 1959.

PHILIP J. WATERS,

Town Clerk.

Guildhall,  
Wrexham.

January 19, 1959.

[4798]

#### County Borough of Croydon ARCHITECTURAL ASSISTANT

APPLICATIONS are invited for this appointment in the School Architect's Section from persons of the R.I.B.A. Intermediate examination standard.

Salary commencing according to qualifications and experience between £695 per annum and £875 per annum on a scale rising (when fully qualified) to £1,060 per annum.

Application forms from Chief Education Officer, 19 Katharine Street, Croydon. Closing date February 23, 1959.

E. TABERNER,

Town Clerk.

[4822]

#### City of Birmingham Education Committee

College of Art and Crafts  
Birmingham School of Architecture

Principal: Meredith W. Hawes, A.R.C.A., A.R.W.S., N.R.D.  
Director of the School of Architecture: Douglas Jones, Dip.Arch(L'pool), F.R.I.B.A.

#### RESEARCH AND TEACHING APPOINTMENT

APPLICATIONS are invited for a full-time appointment for a period of one year, which combines research and teaching. The subject for study relates to the visual qualities of architecture.

Salary will be in accordance with the Burnham (Further Education) Scale, 1956 (Grade A) £475 x £25—£900 plus 5 per cent.

The successful applicant will be required to take up duty on May 1, 1959.

Forms of application may be obtained from the Principal, College of Art and Crafts, Margaret Street, Birmingham, 3 (a.e.).

Closing date: February 23, 1959.

E. L. RUSSELL,

Chief Education Officer.

[4821]

#### ARCHITECTS

ARE required by the United Kingdom Atomic Energy Authority, in the Chief Architect's Department at its Industrial Group Headquarters, Ryley, Warrington, Lancashire, to work on a large building project, and be responsible for detailed design of individual buildings within the project. Close co-operation with engineering sections will be involved.

Candidates must hold the professional qualification of Associateship of the R.I.B.A. or be Registered Architects. A thorough knowledge of modern building construction, specifications, costs, and contractual procedure is essential.

Salary between £1,300 and £1,740 according to qualifications and experience.

Contributory Superannuation. Staff housing scheme.

Send postcard for application form, quoting reference 2902/J42, to Recruitment Officer at above address.

Closing date: February 16, 1959.

[4815]

#### SENIOR ARCHITECTURAL DRAUGHTSMAN

OUR Architectural Section does a large, varied and interesting range of work.

It is situated in a locality which is rural, yet only five miles from the City of Cardiff.

To help maintain our standards in serving over 600,000 consumers we need Senior Architectural Draughtsmen who have obtained, or are studying for, membership of the R.I.B.A.

The salary will be £790/£890 and applications to our Personnel Officer at St. Mellons, Cardiff, will receive careful and prompt consideration.

The South Wales Electricity Board

(Closing date for applications—Thursday, February 12.)

[4829]

### APPOINTMENTS (cont)

#### Chorley Rural District Council

##### APPOINTMENT OF ARCHITECTURAL ASSISTANT

APPLICATIONS are invited for this appointment at a salary in accordance with Grades APT I and II of the National Scale (£575/£845) depending upon qualifications and experience.

The appointment is superannuable and subject to the National Scheme of Conditions of Service, and to one month's notice on either side. Applications giving personal particulars, details of training and experience, and naming two referees must reach me by February 21, 1959.

DAVID CLARKSON,

Clerk of the Council.

Council Offices,  
Gillibrand Street,  
Chorley.

[4814]

#### Shoreham-by-Sea Urban District Council

##### APPOINTMENT OF ARCHITECTURAL ASSISTANT

APPLICATIONS are invited from suitably qualified persons for the appointment of Architectural Assistant in the Surveyor's Department at a salary in accordance with Grade II/III (£725 to £1,025).

Applications stating age, qualifications, present and past appointments, experience, and names and addresses of two persons to whom reference can be made, must reach the undersigned not later than February 16, 1959.

The appointment will be subject to the National Scheme of Conditions of Service of Local Government Officers, to the provisions of the Local Government Superannuation Acts, and to the successful candidate satisfactorily passing a medical examination.

The appointment will be terminable by one month's notice on either side.

R. H. DAVIES,

Clerk of the Council.

Town Hall,  
Shoreham-by-Sea,  
Sussex.

[4831]

#### Borough of Crosby CAPITAL WORKS PROGRAMME ARCHITECTURAL ASSISTANT

APPLICATIONS are invited for the appointment of an Architectural Assistant in the Borough Engineer's Department at a salary within the Special Grade for Architectural Assistants (£750 x £40—£1,030) according to qualifications and experience.

The successful applicant will be engaged mainly upon works of a capital nature, including the construction of a new swimming bath, and some experience in such work will be an advantage.

Housing accommodation will be made available upon satisfactory proof of need.

Applications on forms obtainable from the Borough Engineer at the address below must be received, suitably endorsed, as soon as possible.

Canvassing directly or indirectly will disqualify.

HAROLD O. ROBERTS,

Town Clerk.

Town Hall,  
Waterloo,  
Liverpool, 22.

[4817]

#### Borough of Epsom and Ewell Borough Engineer and Surveyor's Department

##### APPOINTMENT OF ARCHITECTURAL ASSISTANT—APT II

APPLICATIONS are invited for the appointment of an Architectural Assistant on Grade APT II at a commencing salary up to £875 per annum including London Weighting, according to qualifications and experience.

The Department, at present, has a considerable volume of architectural work on hand and applicants should have had experience in the preparation of plans, specifications, etc., and preference will be given to candidates holding a part of the examination leading to Associateship of the R.I.B.A.

Applications stating age, qualifications and experience, with the names of three referees, should be sent to Mr. Colin Cobbett, A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, Town Hall, The Parade, Epsom, so as to reach him not later than Wednesday, February 18, 1959.

EDWARD MOORE,

Town Clerk.

January, 1959.

[4818]

### APPOINTMENTS (cont)

#### City and County of Newcastle upon Tyne City Architect's Department

THE City Architect will be pleased to receive applications for the following vacancies in the New Town Hall Section of the Department:

(i) Principal Assistant Architect, Lettered Scale "A" (£1,205/£1,340 per annum).

(ii) Senior Assistant Architect, APT Division, Grade V (£1,175/£1,325 per annum).

(iii) Senior Assistant Architects, APT Division, Grade IV (£1,025/£1,175 per annum).

The post of Principal Assistant Architect will involve day to day responsibility for the development of the design and for the preparation of working drawings for this large scheme. A high standard of design ability and an appreciation of and experience in good quality building work is essential.

Application forms and full particulars may be obtained from George Kenyon, A.R.I.B.A., A.M.T.P.I., City Architect, 18 Cloth Market, Newcastle upon Tyne, 1. Applicants must state the post applied for when requesting particulars.

Closing date for receipt of completed applications, Saturday, February 21, 1959.

JOHN ATKINSON,

Town Clerk.

Town Hall,  
Newcastle upon Tyne, 1.  
January 27, 1959.

[4816]

#### Borough of Walthamstow ASSISTANT ARCHITECT

APPLICATIONS are invited for the above appointment in the Borough Architect, Engineer and Surveyor's Department (F.G. Southgate, A.R.I.B.A., M.I.Mun.E., A.M.T.P.I., Borough Architect, Engineer and Surveyor) at a salary in accordance with the Special Grade, APT Division (£750/£1,030, exclusive of London Weighting), with the commencing salary according to experience.

Applicants must be Associates of the R.I.B.A., and have had experience of housing schemes.

Applications, stating age, qualifications, experience and present occupation, together with the names of two referees, one of whom should be the present or former employer, are to be received by the undersigned not later than noon on Friday, February 20, 1959, endorsed "Assistant Architect".

G. A. BLAKELEY,

Town Clerk.

Town Hall,  
Walthamstow, E.17.  
January 29, 1959.

[4823]

#### Longbenton Urban District Council

(Population 45,000)

##### ARCHITECTURAL ASSISTANT

APPLICATIONS are invited for the above appointment at a salary within Grade APT I. Commencing salary according to qualifications and experience.

Applications accompanied by the names and addresses of two referees should reach the Clerk, P.O. Box 1, Newcastle upon Tyne, 12, by February 18, 1959.

[4824]

#### Peterlee Development Corporation

##### APPOINTMENT OF TWO ARCHITECTURAL ASSISTANTS

APPLICATIONS are invited for the appointment of two Architectural Assistants on salary grade £679/£811. They are required for work on industrial and housing projects and should be of Intermediate R.I.B.A. standard with office experience.

The appointments, which are superannuable, are subject to the Corporation's Conditions of Service and will be terminable by one month's notice on either side. The successful applicants will be required to pass a medical examination.

Housing accommodation will be made available if required.

Applications, stating age, experience, qualifications and giving the names of two persons to whom reference may be made, should reach the undersigned not later than February 12, 1959.

A. V. WILLIAMS,

General Manager.

Shotton Hall,  
Old Shotton,  
Peterlee,  
Horden,  
Co. Durham.

[4828]

## APPOINTMENTS (cont)

County Borough of East Ham  
PRINCIPAL PLANNING OFFICER  
Grade APT III (£845/£1,025)

VACANCY in Borough Engineer's Department. London Weighting paid in addition. Salary above minimum paid according to qualifications and experience.

Subsistence allowance may be paid over a reasonable period to person appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Details and application form from the Town Clerk, E.6.

Closing date February 23, 1959. [4827]

## APPOINTMENTS (cont)

County Borough of East Ham  
ARCHITECTURAL ASSISTANTS  
Grade I (£575/£725)

LONDON Weighting is paid in addition. Salaries in excess of the minimum may be paid according to qualifications and experience.

Subsistence allowances may be granted over a reasonable period to the persons appointed to obtain suitable housing accommodation necessitating the maintenance of two homes.

Further details and application forms returnable by February 13, 1959, from the Town Clerk, Town Hall, E.6. [4815]

## APPOINTMENTS (cont)

## Bracknell Development Corporation

APPLICATIONS are invited for the post of Architectural Assistant in the Chief Architect's Department. The salary will be in the Higher General Division which rises to a maximum of £531. Commencing salary will be determined according to experience.

Superannuation scheme, medical examination. Housing available. Apply by February 23, 1959, giving age, education and qualifications, experience and appointments held (with dates and salaries), with names of two referees, to General Manager (A.A.), Bracknell Development Corporation, Farley Hall, Bracknell, Berks. [4825]

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## ARCHITECTURAL APPOINTMENTS VACANT

ASSISTANTS required by Mayfair Architects and Planning Consultants with varied home and overseas practice. Five-day week. Telephone for appointment. Regent 2291. [4811]

BRIXTON SCHOOL OF BUILDING require as soon as possible, Lecturer in Architecture. Candidates should have good training and professional qualifications and strong interest in construction and building services. The work includes lecturing and studio supervision, also some teaching of construction to students of quantity surveying. Special practical or research experience in appropriate field, an advantage. Salary £1,260 + £31 10s - £1,417 10s. London allowance £37 16s or £50 8s. Possible increments for previous experience. Application forms from Secretary at School, Ferndale Road, S.W.4. [4833]

BUCKINGHAMSHIRE firm of Architects within 30 miles of London with a varied practice, require two Qualified Architectural Assistants. Five-day week, salary according to age and experience. Please write giving full particulars to Box 1684. [0136]

HENING & CHITTY, F.R.I.B.A., require Senior and Junior Draughtsmen for design and construction of New Teacher Training Colleges. Write particulars to 30 Percy Street, London, W.1, or telephone MUS 8577. [4785]

KENNETH SCOTT ASSOCIATES urgently require one qualified unmarried Assistant to work in their Accra office and two Assistants of Inter R.I.B.A. standard with some office experience to work in their London office on a hospital project. Write with full particulars of qualifications and experience to: 154 Shepherds Bush Road, London, W.6. [4819]

SCHERRER AND HICKS require in their London office Architectural Assistants with contemporary outlook willing to use own initiative. Salary £600 to £900. Write giving full particulars of experience and salary required to 19 Cavendish Square, W.1. [4799]

SCHWEPPES Architect's Department requires Assistants of R.I.B.A. Intermediate Standard. Interesting and varied work in connection with company expansion. Some travelling involved. Applicants must be resourceful and able to work with minimum supervision. Five-day week, canteen, pension scheme. Write stating age (which must be under 30), previous experience and salary required to Personnel Manager, Schweppes House, Connaught Place, W.2. [4812]

TAYLOR WOODROW CONSTRUCTION LTD. require Architectural Assistant of Intermediate to Final standard and contemporary outlook. Perspective ability an advantage but not essential. Good salary commensurate with experience. Pension scheme, canteen facilities. Apply Personnel Manager, Ruislip Road, Southall, Middlesex. [4826]

TAYLOR WOODROW require two Assistant Architects capable of producing working drawings and details. Age immaterial if experienced. Salary £800 to £1,000 p.a. Please write Personnel Manager, Taylor Woodrow Services Limited, Western House, Western Avenue, Ealing, W.5. [4830]

THURROCK U.D.C. (Engineers and Surveyors Department) require Architectural Assistant under Architect to the Council. Salary APT III (£845/£1,025 p.a.). Candidates should be Associates of the R.I.B.A., and must be experienced in the design, preparation of drawings and specifications of various building and architectural work undertaken by a local authority. Appointment pensionable. Housing accommodation may be provided

BOX NOS. add 2 words plus 1/- for registration and forwarding replies which should be addressed c/o "The Architect & Building News," Dorset House, Stamford Street, London, S.E.1.

## ARCHITECTURAL APPOINTMENTS VACANT (cont)

if successful candidate resides more than 20 miles from Thurrock. Applications, stating age, qualifications, and experience, and quoting three referees, to Clerk of the Council, Council Offices, Grays, Essex, by February 11, 1959. Canvassing disqualifies. Relationship with members or senior officers of the Council must be disclosed. [4797]

VERNER REES, LAURENCE & MITCHELL urgently require two Assistants between Intermediate and Final. Salary by arrangement. Prospects. Ring PARK 3900 for interview or write 38 Holland Villa Road, W.14. [4820]

## SITUATIONS WANTED

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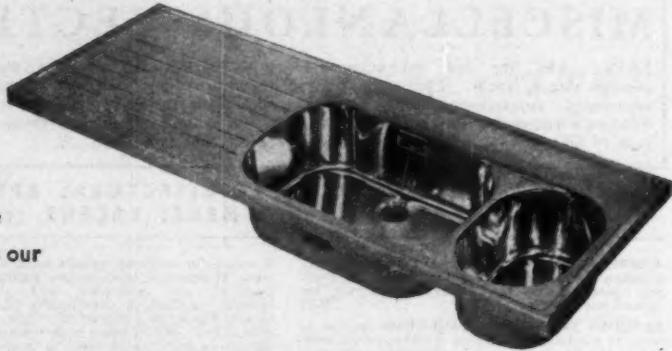
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Issue dated 4 February 1959

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